SERV. 33669

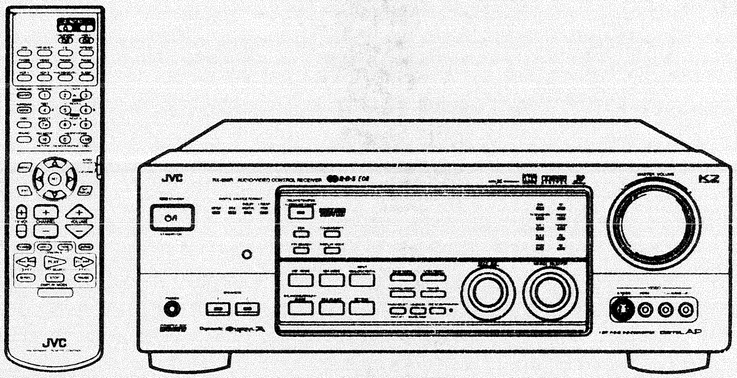
RX-888VBK
RX-888RBK

JVC

SERVICE MANUAL

AUDIO/VIDEO CONTROL RECEIVER

RX-888VBK
RX-888RBK



Dynamic Super-A
MPEG Multichannel
digital AP
R·D·S EON
TEXT COMPU LINK
COMPU LINK Remote
DOLBY DIGITAL
K2 INTERFACE
3D-PHONIC
DIGITAL dts SURROUND

Area Suffix RX-888VBK	
J	U.S.A.
C	Canada

Area Suffix RX-888RBK	
B	U.K.
E	Conttinental Europe
EN	Northern Europe

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No.20744
May. 1999

JVC

VICTOR COMPANY OF JAPAN, LIMITED

EN, GE, FR, NL, SP, IT

0499HIMMDWJEM

JVC

AUDIO/VIDEO CONTROL RECEIVER

AUDIO/VIDEO-RECEIVER MIT STEUEREINHEIT
AMPLI/TUNER DE COMMANDE AUDIO/VIDEO
GEINTEGREERDE AUDIO/VIDEO-VERSTERKER
RECEPTOR DE CONTROL DE AUDIO/VÍDEO
RICEVITORE DI CONTROLLO AUDIO/VIDEO

RX-888RBK

Instructions

K2 INTERFACE

digital AP

Dynamic Super-A

TEXT COMPU LINK

COMPU LINK Remote

3D-PHONIC

MPEG Multichannel

DIGITAL dts SURROUND

DOLBY DIGITAL

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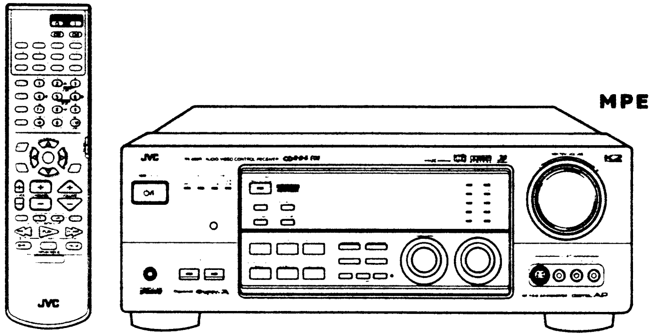


INSTRUCTIONS

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING
MANUAL DE INSTRUCCIONES
ISTRUZIONI

For Customer Use:
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. ____________

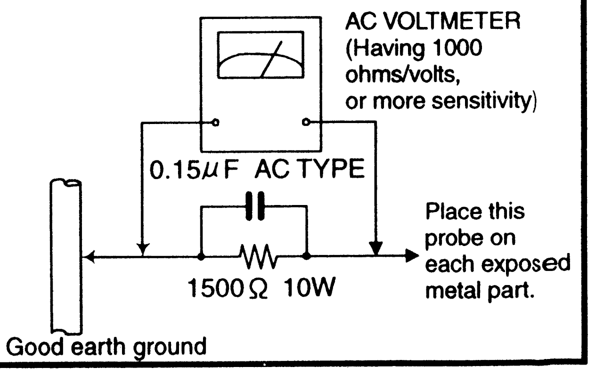
Serial No. ____________

LVT0177-001A
[E]

RX-888VBK/888RBK

Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer`s warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet , particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to eachexposed metal part, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. voltage measured Any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Warnings, Cautions and Others/Warnung, Achtung und sonstige Hinweise/ Mises en garde, précautions et indications diverses/Waarschuwingen, voorzorgen en andere mededelingen/Avisos, precauciones y otras notas/ Avvertenze e precauzioni da osservare

IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT.

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue :	Neutral
Brown :	Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

Per l'Italia:

"Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n.548 del 28/08/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n.301 del 28/12/95."

Caution — STANDBY/ON ⏻/I switch!

Disconnect the mains plug to shut the power off completely. The STANDBY/ON ⏻/I switch in any position does not disconnect the mains line. The power can be remote controlled.

Achtung — STANDBY/ON ⏻/I-Schalter!

Den Netzstecker aus der Steckdose ziehen, um die Stromversorgung vollkommen zu unterbrechen. Der Schalter STANDBY/ON ⏻/I unterbrichet in keiner Stellung die Stromversorgung vollkommen. Die Stromversorgung kann mit der Fernbedienung ein- und ausgeschaltet werden.

Attention — Commutateur STANDBY/ON ⏻/I!

Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur STANDBY/ON ⏻/I ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

Voorzichtig — STANDBY/ON ⏻/I schakelaar!

Om de stroomtoevoer geheel uit te schakelen, trekt u de stekker uit het stopkontakt. Anders zal er altijd een geringe hoeveelheid stroom naar het apparaat lopen, ongeacht de stand van de STANDBY/ON ⏻/I schakelaar. U kunt het apparaat ook met de afstandsbediening aan- en uitschakelen.

Precaución — Interruptor STANDBY/ON ⏻/I!

Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajuste del interruptor STANDBY/ON ⏻/I, la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

Attenzione — L'interruttore STANDBY/ON ⏻/I!

Disinserire la spina del cavo di alimentazione dalla presa della rete elettrica per staccare completamente l'alimentazione. L'interruttore STANDBY/ON ⏻/I in nessuna posizione stacca la linea di alimentazione elettrica principale. È possibile il controllo remoto dell'alimentazione.

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

ACHTUNG

Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw:

1. Keine Schrauben lösen oder Abdeckungen enternen und nicht das Gehäuse öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

VOORZICHTIG

Ter vermindering van gevaar voor brand, elektrische schokken, enz.:

1. Verwijder geen schroeven, panelen of de behuizing.
2. Stel dit toestel niet bloot aan regen of vocht.

PRECAUCIÓN

Para reducir riesgos de choques eléctricos, incendio, etc.:

1. No extraiga los tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

ATTENZIONE

Per ridurre il rischio di scosse elettriche, incendi, ecc...

1. Non togliere viti, coperchi o la scatola.
2. Non esporre l'apparecchio alla piogggia e all'umidità.

Caution: Proper Ventilation

To avoide risk of electric shock and fire and to protect from damage.
Locate the apparatus as follows:

Front:	No obstructions open spacing.
Sides:	No obstructions in 10 cm from the sides.
Top:	No obstructions in 10 cm from the top.
Back:	No obstructions in 15 cm from the back
Bottom:	No obstructions, place on the level surface.

In addition, maintain the best possible air circulation as illustrated.

Achtung: Angemessene Ventilation

Stellen Sie das Gerät zur Verhütung von elektrischem Schlag und Feuer und zum Schutz gegen Beschädigung wie folgt auf:

Vorderseite:	Offener Platz ohne Hindernisse.
Seiten:	Keine Hindernisse innerhalb 10 cm von den Seiten.
Oberseite:	Keine Hindernisse innerhalb 10 cm von der Oberseite.
Rückseite:	Keine Hindernisse innerhalb 15 cm von der Ruckseite.
Unterseite:	Keine Hindernisse. Auf eine ebene Oberflache stellen.

Zusatzlich die bestmögliche Luftzirkulation wie gezeigt erhalten.

Attention: Ventilation Correcte

Pour éviter les chocs électriques, l'incendie et tout autre dégât.
Disposer l'appareil en tenant compte des impératifs suivants

Avant:	Rien ne doit gêner le dégagement
Flancs:	Laisser 10 cm de dégagement latéral
Dessus:	Laisser 10 cm de dégagement supérieur
Arrière:	Laisser 15 cm de dégagement arrière
Dessous:	Rien ne doit obstruer par dessous; poser l'appareil sur une surface plate.

Veiller également à ce que l'air circule le mieux possible comme illustré.

Voorzichtig: Zorg Voor Goede Ventilatie

Om gevaar voor brand of een elektrische schok te voorkomen, dient u bij opstelling van het apparaat op de volgende punten te letten:

Voorkant:	Voldoende ruimte vrij houden.
Zijkanten:	Minstens 10 cm aan weerszijden vrij houden.
Bovenkant:	Niets bovenop plaatsen; 10 cm speling geven.
Achterkant:	Minstens 15 cm ruimte achteraan vrij houden.
Onderkant:	Opstellen op een egaal horizontaal oppervlak.

Bovendien moet er rondom voldoende luchtdoorstroming zijn, zoals in de afbeelding aangegeven.

Precaución: Ventilación Adecuada

Para evitar el riesgo de choque eléctrico e incendio y para proteger el aparato contra daños.
Ubique el aparato de la siguiente manera:

Frente:	Espacio abierto sin obstrucciones
Lados:	10 cm sin obstrucciones a los lados
Parte superior:	10 cm sin obstrucciones en la parte superior
Parte trasera:	15 cm sin obstrucciones en la parte trasera
Fondo:	Sin obstrucciones, colóquelo sobre una superficie nivelada

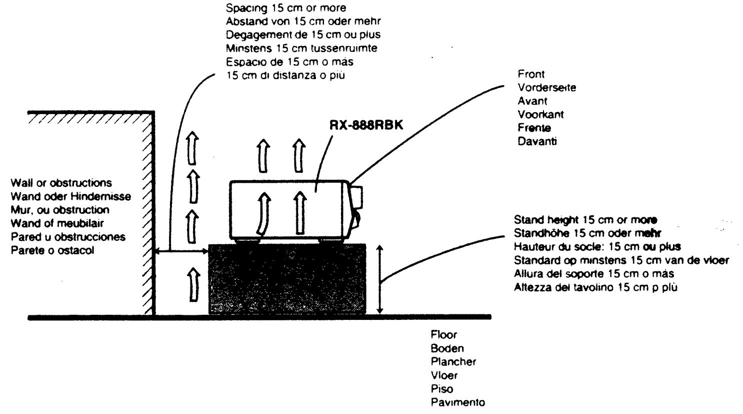
Además, mantenga la mejor circulación de aire posible como se ilustra.

Attenzione: Problemi di Ventilazione

Per evitare il rischio di folgorazioni ed incendi e proteggere l'unità da danni, installarla nel modo seguente.

Davanti:	Nessun ostacolo, spazio libero
Lati:	Nessun ostacolo per almeno 10 cm
Sopra:	Nessun ostacolo per almeno 10 cm
Retro:	Nessun ostacolo per almeno 15 cm
Fondo:	Libero ed in piano

Inoltre, mantenere il più possibile la circolazione dell'aria.



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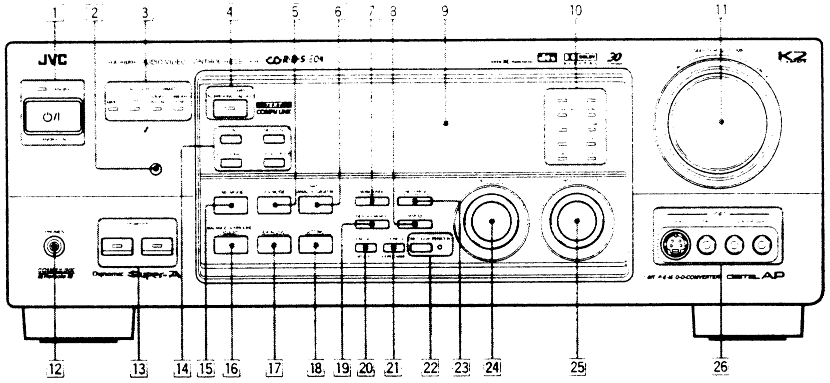
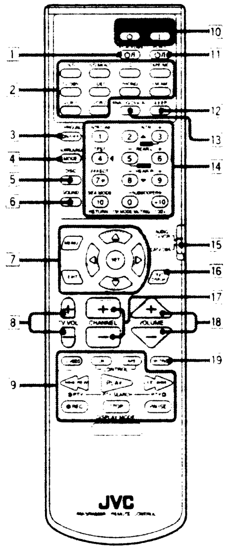
Parts Identification

Become familiar with the buttons and controls on the receiver before use.
Refer to the pages in parentheses for details.





Front Panel

1 STANDBY/ON ⏻/| button and STANDBY lamp (9)
2 Remote sensor (8)
3 DIGITAL SOURCE FORMAT lamps (10)
MPEG, DTS, DOLBY DIGITAL, LINEAR PCM
4 DOLBY/DTS/MPEG SURROUND ON/OFF button and lamp (30)
5 SEA MODE button (22)
6 INPUT ANALOG/DIGITAL button (13)
7 FM/AM TUNING button (17) *
8 FM MODE button (18)
9 Display (9)
10 Source lamps (9)
11 MASTER VOLUME control (10)
12 PHONES jack (11)
13 SPEAKERS 1/2 buttons and lamps (10)
14 RDS operation buttons (19 – 21)
EON, TA/NEWS/INFO, PTY SEARCH, DISPLAY MODE
15 DSP MODE button (26)
16 BALANCE/SURROUND ADJUST button (11, 12, 26) *
17 SEA ADJUST button (22) *
18 SETTING button (12 – 15) *
19 TUNER/SEA MEMORY button (17, 18, 22)
20 SOUND SELECT/INPUT ATT button (10, 11)
21 LOUDNESS/SOURCE NAME button (11, 12)
22 ONE TOUCH OPERATION button and lamp (16)
23 TUNER PRESET button (18) *
24 MULTI JOG control
What this control actually does depends on which function you are trying to adjust. Before using this control, select the function by pressing one of the buttons marked with *.
25 SOURCE SELECTOR control (9)
26 VIDEO input jacks (7)

Remote Control

1 TV/CATV/DBS ⏻/| button (46 – 48)
2 Source selecting buttons (9)
DVD, DVD MULTI, CD, TAPE/MD, TV/DBS, VIDEO, PHONO, FM/AM, VCR 1, VCR 2
3 SURROUND ON/OFF button (30)
4 SURROUND MODE button (26)
5 DISC button (45)
6 SOUND button (22, 26)
7 On-screen operation buttons (34, 41)
MENU, SET, EXIT, ∆, ∇, ◁, ▷
8 TV VOL +/– buttons (46, 47)
9 • RDS operation buttons (19 – 20)
PTY SEARCH, PTY –/+, DISPLAY MODE
• Operating buttons for audio/video components (45 – 48)
10 AUDIO buttons (9)
⏻, |
11 VCR 1 ⏻/| button (46, 48)
12 SLEEP button (16)
13 ANALOG/DIGITAL button (13)
14 • 10 keys for selecting preset channel (18)
• 10 keys for adjusting sound (26 – 29, 33)
• 10 keys for operating audio/video components (45 – 48)
15 Remote control mode selector (9, 45, 47)
16 TEXT DISPLAY button (41)
17 CHANNEL +/– button (46 – 48)
18 VOLUME +/– button (10)
19 MUTING button (11)

Getting Started

This section explains how to connect audio/video components and speakers to the receiver, and how to connect the power supply.

Before Installation

General

- Be sure your hands are dry.
- Turn the power off to all components.
- Read the manuals supplied with the components you are going to connect.

Locations

- Install the receiver in a location that is level and protected from moisture.
- The temperature around the receiver must be between −5° and 35° C (23° and 95° F).
- Make sure there is good ventilation around the receiver. Poor ventilation could cause overheating and damage the receiver.

Handling the receiver

- Do not insert any metal object into the receiver.
- Do not disassemble the receiver or remove screws, covers, or cabinet.
- Do not expose the receiver to rain or moisture.

Checking the Supplied Accessories

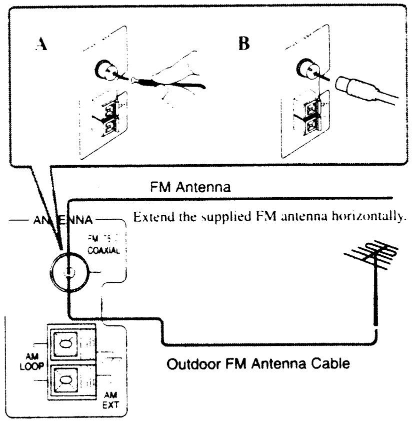
Check to be sure you have all of the following items, which are supplied with the receiver.
The number in the parentheses indicates quantity of the pieces supplied.

- **Remote Control (1)**
- **Batteries (2)**
- **AM (MW/LW) Loop Antenna (1)**
- **FM Antenna (1)**

If anything is missing, contact your dealer immediately.

Connecting the FM and AM (MW/LW) Antennas

FM Antenna Connections

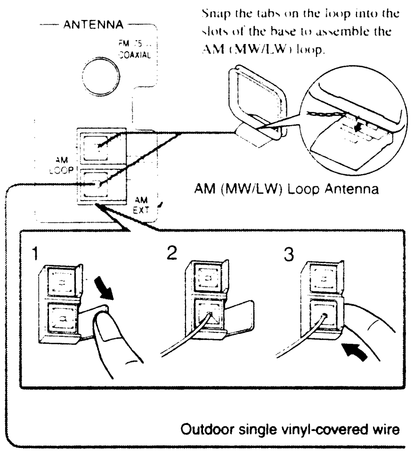


A. Using the Supplied FM Antenna
The FM antenna provided can be connected to the FM 75Ω COAXIAL terminal as temporary measure.

B. Using the Standard Type Connector (Not Supplied)
A standard type connector (IEC or DIN45325) should be connected to the FM 75Ω COAXIAL terminal.

Note:
If reception is poor, connect the outdoor antenna.
Before attaching a 75Ω coaxial cable (the kind with a round wire going to an outdoor antenna), disconnect the supplied FM antenna.

AM (MW/LW) Antenna Connections


ANTENNA
FM 75Ω COAXIAL
Snap the tabs on the loop into the slots of the base to assemble the AM (MW/LW) loop.
AM LOOP
AM EXT
AM (MW/LW) Loop Antenna
1
2
3
Outdoor single vinyl-covered wire

Turn the loop until you have the best reception.

Notes:

- *Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord. This could cause poor reception.*
- *If reception is poor, connect an outdoor single vinyl-covered wire to the AM EXT terminal. (Keep the AM (MW/LW) loop antenna connected.)*

Connecting the Speakers

You can connect the following speakers:

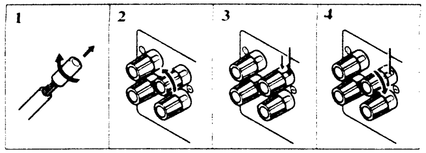
- Two pairs of front speakers to produce normal stereo sound.
- One pair of rear speakers to enjoy the surround effect.
- One center speaker to produce more effective surround effect (to emphasize human voices).
- One subwoofer to enhance the bass.

IMPORTANT:
After connecting the speakers listed above, set the speaker setting information properly to obtain the best possible DSP effect. For details, see page 14.

For each speaker (except for a subwoofer), connect the (−) and (+) terminals on the rear panel to the (−) and (+) terminals marked on the speakers. For connecting a subwoofer, see page 5.

CAUTION:
Use speakers with the SPEAKER IMPEDANCE indicated by the speaker terminals.

Basic connecting procedure



1 Cut, twist and remove the insulation at the end of each speaker signal cable (not supplied).

2 Turn the knob counterclockwise.

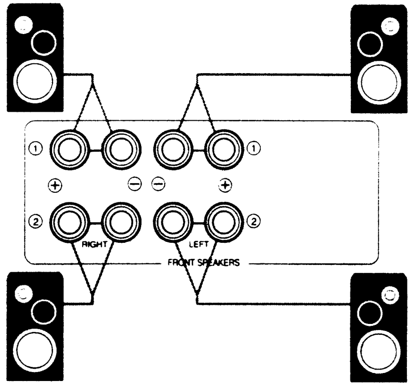
3 Insert the speaker signal cable.

4 Turn the knob clockwise.

Connecting the front speakers

You can connect two pairs of front speakers (one pair to the FRONT SPEAKERS 1 terminals, and another pair to the FRONT SPEAKERS 2 terminals).

Right speaker — FRONT SPEAKERS 1 — Left speaker

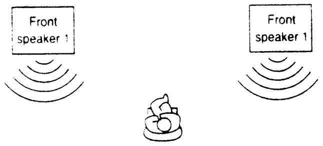


Right speaker — FRONT SPEAKERS 2 — Left speaker

About the speaker impedance

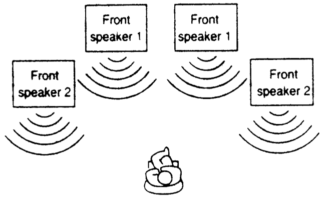
The required speaker impedance of the front speakers does differ depending on whether both the FRONT SPEAKERS 1 and FRONT SPEAKERS 2 terminals are used or only one of them is used.

CASE 1 **When you connect only one set of front speakers**


Front speaker 1
Front speaker 1

Use front speakers with **4 – 16 ohm** impedance.

CASE 2 **When you connect two sets of front speakers**


Front speaker 1
Front speaker 1
Front speaker 2
Front speaker 2

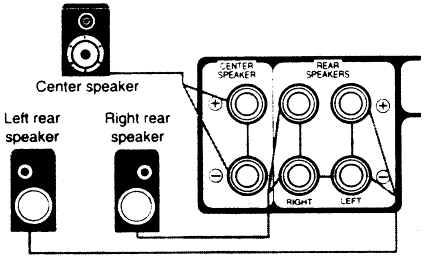
Use front speakers **8 – 16 ohm** impedance.

CAUTION:

Use speakers with the SPEAKER IMPEDANCE indicated by the speaker terminals.

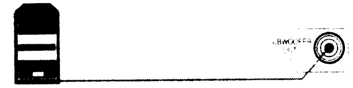
Connecting the rear and center speakers

Connect rear speakers to the REAR SPEAKERS terminals and a center speaker to the CENTER SPEAKER terminals.


Center speaker
Left rear speaker
Right rear speaker
CENTER SPEAKER
REAR SPEAKERS
RIGHT
LEFT

Connecting the subwoofer speaker

You can enhance the bass by connecting a subwoofer.
Connect the input jack of a powered subwoofer to the SUBWOOFER OUT jack on the rear panel, using a cable with RCA pin plugs (not supplied).


SUBWOOFER OUT

Powered subwoofer

Connecting Audio/Video Components

You can connect the following audio/video components to this receiver. Refer also to the manuals supplied with your components.

Audio Components	Video Components
• Turntable	• DVD player*
• CD player*	• TV
• Cassette deck or MD recorder*	• DBS tuner*
	• VCRs
————————	• Video camera

* *You can connect these components using the methods described in "Analog connections" (below) or in "Digital connections" (see page 8).*

Analog connections

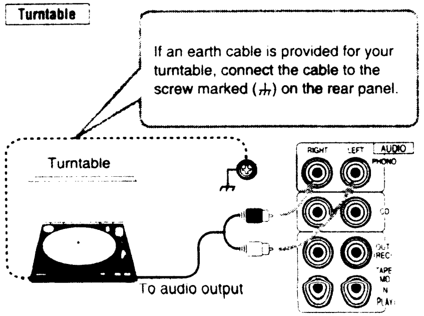
Audio component connections

Use the cables with RCA pin plugs (not supplied).
Connect the white plug to the audio left jack, and the red plug to the audio right jack.

CAUTION:

If you connect a sound-enhancing device such as a graphic equalizer between the source components and this receiver, the sound output through this receiver may be distorted.

Turntable

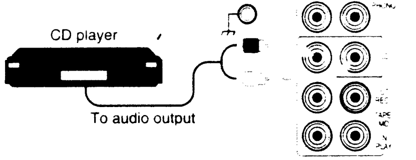

Turntable
To audio output
RIGHT
LEFT
AUDIO
PHONO
CD
OUT
REC
TAPE
MD
IN
PLAY

If an earth cable is provided for your turntable, connect the cable to the screw marked (⏚) on the rear panel.

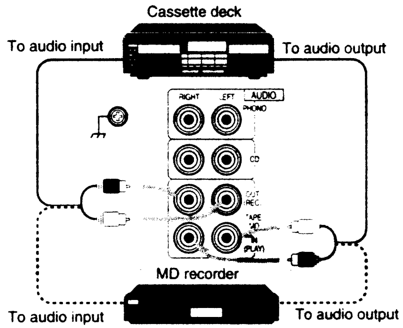
Note:

Any turntables incorporating a small-output cartridge such as an MC (moving-coil type) must be connected to this receiver through a commercial head amplifier or step-up transformer. Direct connection may result in insufficient volume.

CD player


CD player
To audio output
AUDIO
PHONO

Cassette deck or MD recorder


Cassette deck
To audio input
To audio output
RIGHT
LEFT
AUDIO
PHONO
CD
OUT
REC
TAPE
MD
IN
PLAY
MD recorder
To audio input
To audio output

Note:

You can connect either a cassette deck or an MD recorder to the TAPE/MD jacks. When connecting an MD recorder to the TAPE/MD jacks, change the source name, which will be shown on the display when selected as the source, to "MD." See page 12 for details.

If your audio components have a COMPU LINK-3 or TEXT COMPU LINK terminal

- See also page 39 for detailed information about the connection and the COMPU LINK-3 remote control system.
- See also page 40 for detailed information about the connection and the TEXT COMPU LINK remote control system.

Video component connections

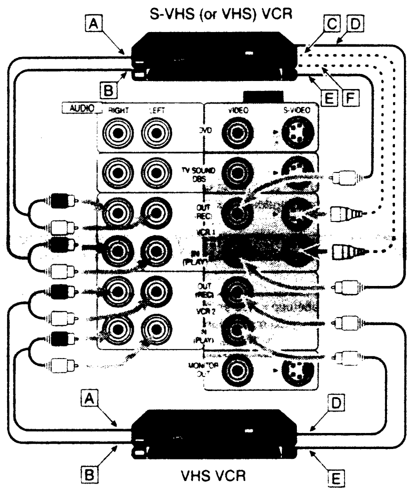
Use the cables with RCA pin plugs (not supplied).
Connect the white plug to the audio left jack, the red plug to the audio right jack, and the yellow plug to the video jack.
If your video components have S-video (Y/C-separation) terminals, connect them using S-video cables (not supplied). Connecting these video components through the S-video input/output terminals will give you better picture playback (or recording) quality.

IMPORTANT:

This receiver is equipped with both the composite video and S-video input/output terminals for connecting video components.
You do not have to connect both the composite video and S-video terminals.
However, **remember that the video signals from the composite video input terminals are output only through the composite video output terminals, while the ones from the S-video input terminals are output only through the S-video output terminals.**
Therefore, if a recording video component and a playing video component are connected to the receiver through the different video terminals, you cannot record the picture from the playing component on the recording component. In addition, if the TV and a playing video component are connected to the receiver through the different video terminals, you cannot view the playback picture from the playing component on the TV.

To view and record the playback picture from the video component connected to the VCR 2 jacks, you must connect the TV and the recording video component through the composite video terminals.

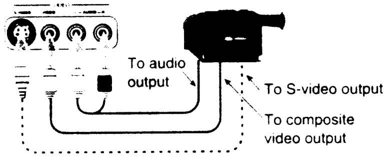
VCR


A
S-VHS (or VHS) VCR
C
D
B
E
F
AUDIO
RIGHT
LEFT
VIDEO
S-VIDEO
DVD
TV SOUND DBS
OUT REC
IN PLAY
VCR 1
VCR 2
MONITOR OUT
A
D
B
VHS VCR
E

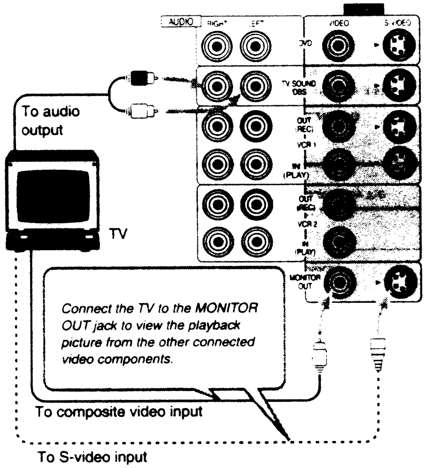
- A To left/right channel audio output
- B To left/right channel audio input
- C To S-video output
- D To composite video output
- E To composite video input
- F To S-video input

Video camera

The VIDEO jacks on the front panel is convenient when connecting and disconnecting the equipment frequently.


To audio output
To S-video output
To composite video output

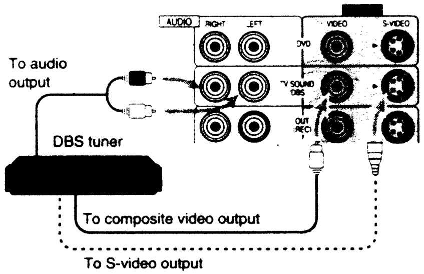
TV and/or DBS tuner


AUDIO
RIGHT
LEFT
VIDEO
S-VIDEO
DVD
TV SOUND DBS
OUT (REC) VCR 1 IN (PLAY)
OUT (REC) VCR 2 IN (PLAY)
MONITOR OUT
To audio output
TV
To composite video input
To S-video input

Connect the TV to the MONITOR OUT jack to view the playback picture from the other connected video components.

Notes:

- ***Use a TV of the PAL- or multi-color system.***
- ***When connecting the TV to the TV SOUND/DBS jacks, DO NOT connect the TV's video output to these video input terminals.***

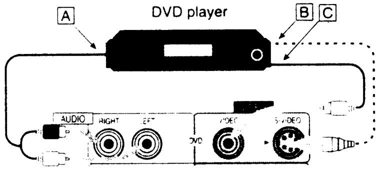

AUDIO
RIGHT
LEFT
VIDEO
S-VIDEO
DVD
TV SOUND DBS
OUT (REC)
To audio output
DBS tuner
To composite video output
To S-video output

Note:

When connecting the DBS tuner to the TV SOUND/DBS jacks, change the source name, which will be shown on the display when selected as the source, to "DBS." See page 12 for details.

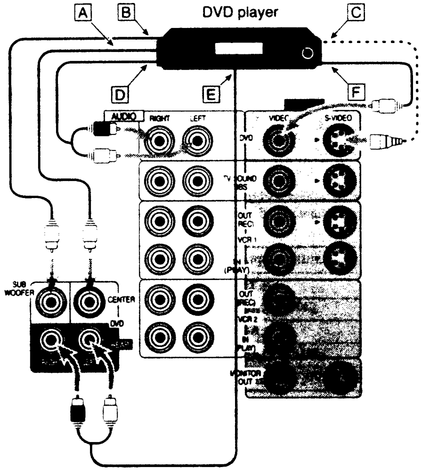
DVD player

- When you connect the DVD player with stereo output jacks:


A
DVD player
B
C
AUDIO
RIGHT
LEFT
VIDEO
S-VIDEO
DVD

A To front left/right channel audio output (or to audio mixed output if necessary)
B To S-video output
C To composite video output

- When you connect the DVD player with its analog discrete output (5.1 CH reproduction) jacks:


A
B
DVD player
C
D
E
F
AUDIO
RIGHT
LEFT
VIDEO
S-VIDEO
DVD
SUB WOOFER
CENTER

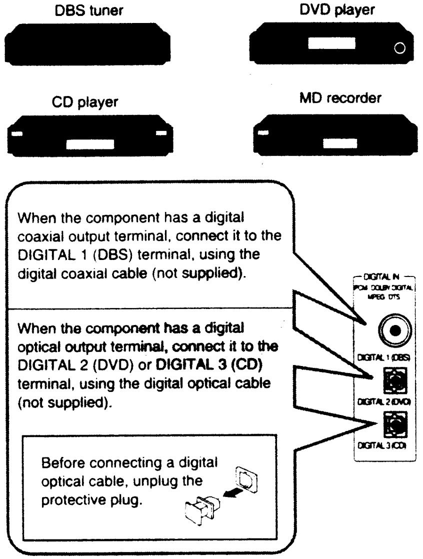
A To center channel audio output
B To subwoofer audio output
C To S-video output
D To front left/right channel audio output
E To rear left/right channel audio output
F To composite video output

Digital connections

This receiver is equipped with three DIGITAL IN terminals — one digital coaxial terminal and two digital optical terminals.
You can connect any component to any one of the digital terminals using the digital coaxial cable (not supplied) or digital optical cable (not supplied).

IMPORTANT:

- When connecting the DVD player or the DBS tuner using the digital terminal, you also need to connect it to the video jack (either composite video terminal or S-video terminal) on the rear. Without connecting it to the video jack, you can view no playback picture.
- After connecting the components using the DIGITAL IN terminals, set the following correctly if necessary.
  - Select the digital input mode correctly. For details, see "Selecting the Analog or Digital Input Mode" on page 13.
  - Set the digital input (DIGITAL IN) terminal setting correctly. For details, see "Digital Input (DIGITAL IN) Terminal Setting" on page 13.


DBS tuner
DVD player
CD player
MD recorder
DIGITAL IN
PCM DOLBY DIGITAL MPEG DTS
DIGITAL 1 (DBS)
DIGITAL 2 (DVD)
DIGITAL 3 (CD)

When the component has a digital coaxial output terminal, connect it to the DIGITAL 1 (DBS) terminal, using the digital coaxial cable (not supplied).

When the component has a digital optical output terminal, connect it to the DIGITAL 2 (DVD) or DIGITAL 3 (CD) terminal, using the digital optical cable (not supplied).

Before connecting a digital optical cable, unplug the protective plug.

Notes:

- *When shipped from the factory, the DIGITAL IN terminals has been set for use with the following components.*
  - *DIGITAL 1 (coaxial): For DBS tuner*
  - *DIGITAL 2 (optical): For DVD player*
  - *DIGITAL 3 (optical): For CD player*
- *When you want to operate the CD player or MD recorder using the COMPU LINK remote control system, connect the target component also as described in "Analog connections" (see page 6).*
- *When you want to operate the DVD player using the AV COMPU LINK remote control system, connect the DVD player also as described in "Analog connections" (see page 7).*

Connecting the Power Cord

Before plugging the receiver into an AC outlet, make sure that all connections have been made.

Plug the power cord into an AC outlet.

Keep the power cord away from the connecting cables and the antenna. The power cord may cause noise or screen interference. We recommend that you use a coaxial cable to connect the antenna, since it is well-shielded against interference.

Note:

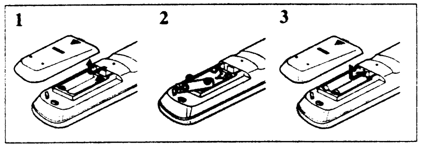
The preset settings such as preset channel and sound adjustment may be erased in a few days in the following cases:
- *When you unplug the power cord.*
- *When a power failure occurs.*

CAUTIONS:

- Do not touch the power cord with wet hands.
- Do not pull on the power cord to unplug the cord. When unplugging the cord, always grasp the plug so as not to damage the cord.

Putting Batteries in the Remote Control

Before using the remote control, put two supplied batteries first. When using the remote control, aim the remote control directly at the remote sensor on the receiver.



1. **On the back of the remote control, remove the battery cover.**

2. **Insert batteries. Make sure to match the polarity: (+) to (+).**

3. **Replace the cover.**

If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P(SUM-3)/AA(15F) type dry-cell batteries.

CAUTION:

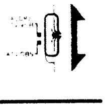
Follow these precautions to avoid leaking or cracking cells:
- Place batteries in the remote control so they match the polarity: (+) to (+).
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

Basic Operations

The following operations are commonly used when you play any sound source.

IMPORTANT:

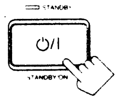
When using the remote control, check to see if its remote control mode selector is set to the correct position:
To operate an audio system, TV, and VCR, set it to "AUDIO/TV/VCR."
To operate a CATV converter and DBS tuner, set it to "CATV/DBS."



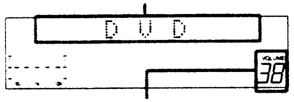
Turning the Power On and Off (Standby)

On the front panel:

To turn on the power, press STANDBY/ON ⏻/I.
The STANDBY lamp goes off. The name of the current source (or station frequency) appears on the display.

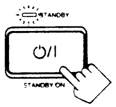


Current source name appears



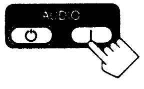
Current volume level is shown here

To turn off the power (into standby mode), press STANDBY/ON ⏻/I again.
The STANDBY lamp lights up. A small amount of power is consumed in standby mode. To turn the power off completely, unplug the AC power cord.

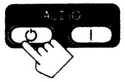


From the remote control:

To turn on the power, press AUDIO I.
The STANDBY lamp goes off. The name of the current source (or station frequency) appears on the display.



To turn off the power (into standby mode), press AUDIO ⏻.
The STANDBY lamp lights up.

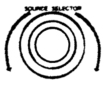


Selecting the Source to Play

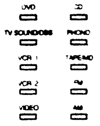
On the front panel:

Turn SOURCE SELECTOR until the source name you want appears on the display.

- As you turn the selector, the source changes as follows:



CD ⇄ PHONO ⇄ TAPE (or MD) ⇄ FM ⇄
AM ⇄ DVD ⇄ DVD MULTI ⇄
TV SOUND (or DBS) ⇄ VCR 1 ⇄
VCR 2 ⇄ VIDEO ⇄ (back to the beginning)

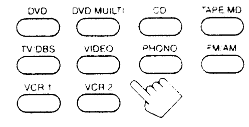


The selected source lamp also lights up.

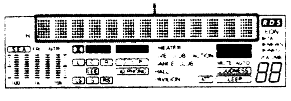
- The DVD lamp lights up both for "DVD" and "DVD MULTI."

From the remote control:

Press one of the source selecting buttons.



Selected source name appears



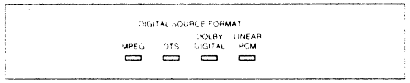
DVD	Select the DVD player.
DVD MULTI	Select the DVD player for viewing the digital video disc using the analog discrete output mode (5.1CH reproduction) on the DVD player. To enjoy the DVD MULTI playback, see page 32.
CD *	Select the CD player.
TAPE/MD *	Select the cassette deck (or the MD recorder).
TV/DBS	• Select TV sounds when the remote control mode selector is set to "AUDIO/TV/VCR." • Select the DBS tuner when the remote control mode selector is set to "CATV/DBS."
VIDEO	Select video component connected to the VIDEO jacks.
PHONO *	Select the turntable.
FM/AM *	Select an FM or AM (MW/LW) broadcast. • Each time you press the button, the band alternates between FM and AM (MW/LW).
VCR 1	Select the video component connected to the VCR 1 jacks.
VCR 2	**Select the video component connected to the VCR 2 jacks.**

Notes:

- *When connecting an MD recorder (to the TAPE/MD jacks), and a DBS tuner (to the TV SOUND/DBS jacks), change the source name shown on the display. For details, see page 12.*
- *When you press one of the source selecting buttons on the remote control marked above with an asterisk (*), the receiver automatically turns on.*

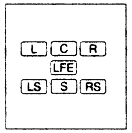
When playing a digital source through a digital terminal

- The DIGITAL SOURCE FORMAT lamps on the front panel indicate what type of the digital signal comes into the receiver.



MPEG:	Lights up when MPEG Multichannel signals (see page 24) come in.
DTS:	Lights up when DTS Digital Surround signals (see page 24) come in.
DOLBY DIGITAL:	Lights up when Dolby Digital signals (see page 24) come in.
LINEAR PCM:	Lights up when Linear PCM signals come in.

- The signal indicators also light up on the display to indicate the incoming channel signals. (Only the indicators for the incoming signals light up.)



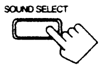
L:	Left front channel
R:	Right front channel
C:	Center channel
LS:	Left rear channel
RS:	Right rear channel
S:	Rear channel (monaural)
LFE:	Subwoofer channel

Selecting different sources for picture and sound

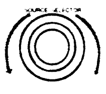
You can watch picture from a video component while listening to sound from another component.

On the front panel:

1. **Press SOUND SELECT (INPUT ATT) briefly while viewing the picture from a video component such as the VCR or DVD player, etc.**
   "SOUND SELECT" appears on the display.



2. **Turn SOURCE SELECTOR to select the sound (except the TV sound), while the indication of the above step is still on the display.**



From the remote control:

Press one of the audio source selecting buttons (CD, TAPE/MD, PHONO, FM/AM), while viewing the picture from a video component such as the VCR or DVD player, etc.

Notes:

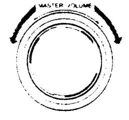
- *Once you have selected a video source, pictures of the selected source are sent to the TV until you select another video source.*
- *When you select "TV SOUND" as the source, this function does not work.*

Adjusting the Volume

On the front panel:

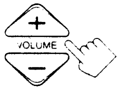
To increase the volume, turn MASTER VOLUME clockwise.
To decrease the volume, turn it counterclockwise.

- When you turn MASTER VOLUME rapidly, the volume level also changes rapidly.
- When you turn MASTER VOLUME slowly, the volume level also changes slowly.



From the remote control:

To increase the volume, press VOLUME +.
To decrease the volume, press VOLUME –.



CAUTION:

Always set the volume to the minimum before starting any source. If the volume is set at its high level, the sudden blast of sound energy **can permanently damage your hearing and/or ruin your speakers.**

Note:

The volume level can be adjusted within the range of "0" (minimum) to "90" (maximum).

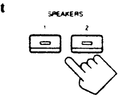
Selecting the Front Speakers

On the front panel ONLY:

When you have connected two pairs of the front speakers, you can select which to use.

Press SPEAKERS 1 or SPEAKERS 2 to select the speaker to use.

- Each time you press the button, the lamp on the respective button turns on and off. When the lamp on either button lights up, the respective speakers are activated.



IMPORTANT:

You can activate two pairs of the front speakers at the same time only when no signals are sent to the center and rear speakers. Otherwise, activating one pair of the speakers deactivates the other.

Note:

If you use any of the DSP modes other than the 3D-PHONIC modes with both front speakers activated, the speakers connected to the FRONT SPEAKERS 2 terminals are deactivated.

Listening only with headphones

1. Connect a pair of headphones to the PHONES jack on the front panel.
2. Press SPEAKERS 1 and/or 2 so that no lamps on the buttons are turned on.

CAUTION:

Be sure to turn down the volume before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.

Muting the Sound

From the remote control ONLY:

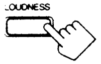
Press MUTING to mute the sound through all speakers and headphones connected.
"MUTING" appears on the display and the volume turns off (the volume level indicator goes off).

To restore the sound, press MUTING again so that "OFF" appears on the display.
- Turning MASTER VOLUME on the front panel or pressing VOLUME +/– on the remote control also restores the sound.

Listening at Low Volume (Loudness)

Human ears are not sensitive to bass at low volume. To compensate for this, the loudness function automatically boosts the bass level as you lower the volume.

On the front panel ONLY:



Press LOUDNESS (SOURCE NAME) briefly to select the loudness function.
- Each time you press the button, the loudness function turns on ("LOUDNESS ON") and off ("LOUDNESS OFF").
  - Select "LOUDNESS ON" to activate the loudness function. The LOUDNESS indicator lights up on the display.
  - Select "LOUDNESS OFF" to cancel it. The indicator goes off.

Note:

The loudness function affects the front speaker sounds only.

Attenuating the Input Signal

When the input level of the playing source is too high, the sounds will be distorted. If this happens, you need to attenuate the input signal level to prevent the sound distortion.

On the front panel ONLY:

Press and hold INPUT ATT (SOUND SELECT) so that the ATT indicator lights up on the display.
- Each time you press and hold the button, the Input Attenuator mode turns on ("INPUT ATT ON") or off ("INPUT NORMAL").

Notes:

- *This function is available only for the sources connected using the analog terminals.*
- *This function takes effect when the DSP mode is in use.*
- *When selecting "DVD MULTI" as the source, this effect does not work.*

Adjusting the Subwoofer Output Level

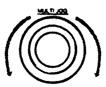
You can adjust the subwoofer output level if you have selected "YES" for the "SUBWOOFER" (see page 12).
Once it has been adjusted, the receiver memorizes the adjustment.

Before you start, remember....
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel:

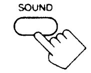
SURROUND
ADJUST

1. **Press BALANCE/SURROUND ADJUST repeatedly until "SUBWFR LEVEL" appears on the display.**
   The display changes to show the current setting.

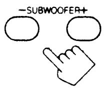


2. **Turn MULTI JOG to adjust the subwoofer output level (–10 dB to +10 dB).**

From the remote control:



1. **Press SOUND.**
   The 10 keys are activated for sound adjustments.

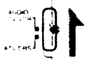


2. **Press SUBWOOFER –/+ to adjust the subwoofer output level (–10 dB to +10 dB).**

Basic Settings

Some of the following settings are required after connecting and positioning your speakers in your listening room, while others will make operations easier.

IMPORTANT:



When using the remote control, check to see if its remote control mode selector is set to the correct position:
To operate this receiver, set it to "AUDIO/TV/VCR" (except when selecting the DBS tuner as the source).

Recording a Source

You can record any source playing through the receiver to a cassette deck (or an MD recorder) connected to the TAPE/MD jacks and the VCRs connected to the VCR 1 and VCR 2 jacks at the same time.

While recording, you can adjust the volume level, without affecting the sound levels of the recording.

IMPORTANT:

- Before recording a digital source, turn off the DSP mode (see page 23).
- While recording a digital source, do not change the SEA mode (see page 22) or DSP mode (see page 23); otherwise, recording will be interrupted.

Note:

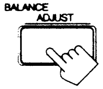
The SEA modes and DSP modes cannot affect the recording while recording an analog source.

Adjusting the Front Speaker Output Balance

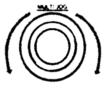
If the sounds you hear from the front right and left speakers are unequal, you can adjust the speaker output balance.

Before you start, remember....
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:



1. **Press BALANCE/SURROUND ADJUST repeatedly until "L/R BALANCE" appears on the display.**
   The display changes to show the current setting.



2. **Turn MULTI JOG to adjust the balance.**
   - Turning it clockwise decreases the left channel output.
   - Turning it counterclockwise decreases the right channel output.

Changing the Source Name

When you have connected an MD recorder to the TAPE/MD jacks or the DBS tuner to the TV SOUND/DBS jacks on the rear panel, change the source name shown on the display when you select the MD recorder or DBS tuner as the source.

On the front panel ONLY:

1. ***When changing the source name from "TAPE" to "MD":***
   - **Turn SOURCE SELECTOR until "TAPE" appears.**

   When changing the source name from "TV SOUND" to "DBS":
   - **Turn SOURCE SELECTOR until "TV SOUND" appears.**

SOURCE NAME

2. **Press and hold SOURCE NAME (LOUDNESS) until "ASSGN. MD" or "ASSGN. DBS" appears on the display.**

To change the source name to "TAPE" or "TV SOUND," repeat the same procedure above — in step 1, select "MD" or "DBS" then press and hold SOURCE NAME (LOUDNESS).

Note:

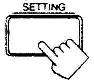
Without changing the source name, you can still use the connected components. However, there may be some inconvenience.
- ***"TAPE" or "TV SOUND" will appear on the display when you select the MD recorder or DBS tuner.***
- *You cannot use the digital input (see page 13) for the MD recorder and the DBS tuner.*
- ***You cannot use the COMPU LINK remote control system (see page 39) to operate the MD recorder.***

Setting the Subwoofer Information

Register whether or not you have connected a subwoofer.

Before you start, remember....
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:



1. **Press SETTING repeatedly until "SUBWOOFER" appears on the display.**
   The display changes to show the current setting.

2. **Turn MULTI JOG to register whether you have connected a subwoofer or not.**
   - As you turn it, the subwoofer setting alternates between "YES" or "NO."

YES:	Select this when a subwoofer is used.
NO:	Select this when no subwoofer is used.

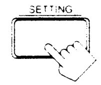
Digital Input (DIGITAL IN) Terminal Setting

When you use the digital input terminals, you have to register what components are connected to which terminals (DIGITAL IN 1/2/3)

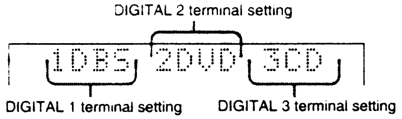
Before you start, remember....

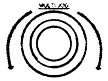
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:



1. **Press SETTING repeatedly until "DIGITAL IN" appears on the display.**
   The display changes to show the current setting.


DIGITAL 2 terminal setting
1DBS 2DVD 3CD
DIGITAL 1 terminal setting
DIGITAL 3 terminal setting



2. **Turn MULTI JOG to select the appropriate digital terminal setting.**
   - As you turn it, the display changes to show the following:

1 DBS 2 DVD 3 CD ⇄ 1 MD 2 DVD 3 CD ⇄
1 MD 2 DBS 3 CD ⇄ 1 MD 2 DBS 3 DVD ⇄
1 CD 2 DVD 3 MD ⇄ 1 CD 2 DBS 3 MD ⇄
1 CD 2 DBS 3 DVD ⇄ 1 DVD 2 CD 3 MD ⇄
1 DVD 2 DBS 3 MD ⇄ 1 DVD 2 DBS 3 CD ⇄
1 DBS 2 CD 3 MD ⇄ 1 DBS 2 DVD 3 MD ⇄
(back to the beginning)

Note:

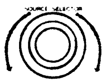
When shipped from the factory, the DIGITAL IN terminals can be used as the digital input for the following components.

- *DIGITAL 1 (coaxial): For DBS tuner*
- *DIGITAL 2 (optical): For DVD player*
- *DIGITAL 3 (optical): For CD player*

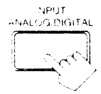
Selecting the Analog or Digital Input Mode

When you have connected some components such as CD player, MD recorder, DVD player and the DBS tuner using digital terminals (see page 8), you need to change the input mode for these components to the digital input.

On the front panel:



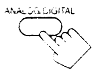
1. **Turn SOURCE SELECTOR until the source (CD, MD, DBS, or DVD) for which you want to change the input mode from analog input to digital input appears on the display.**



2. **Press INPUT ANALOG/DIGITAL to change the input mode.**
   - Each time you press the button, the input mode alternates between the digital input and analog input.

From the remote control:

1. **Press the source selecting button (CD, TAPE/MD, TV/DBS*, or DVD) for which you want to change the input mode from analog input to digital input.**



2. **Press ANALOG/DIGITAL to change the input mode.**
   - Each time you press the button, the input mode alternates between the digital input and analog input.

Notes:

- *Before pressing TV/DBS, make sure that the remote control mode selector on the remote control is set to "CATV/DBS."*
- *Once you have set the digital input for these components, it is always used every time you select these components as the source.*

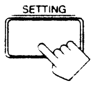
Showing the Text Information on the Display

When you have connected an MD recorder or CD player equipped with TEXT COMPU LINK remote control system (see page 40), you can show the text information, such as disc title or track title, on the display of this receiver. To show it on the display, follow the procedure below.

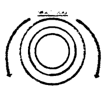
Before you start, remember....

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:



1. **Press SETTING repeatedly until "FL DISPLAY" appears on the display.**
   The display changes to show the current setting.



2. **Turn MULTI JOG to select either the source name or the text information to be shown on the display.**
   - As you turn it, the display changes to show the following:

NORMAL ⟷ TEXT

NORMAL:	Source name appears during play.
TEXT:	Text information appears during play.

Notes:

- *Though you have selected "TEXT," the source name such as "CD" or "MD" appears if a playing disc has no text information.*
- *Though you have selected "NORMAL," the setting is changed to "TEXT" in the following case:*
  - *If the power failure occurs.*
  - *If you unplug the AC power cord.*

Setting the Speakers for the DSP Modes

To obtain the best possible surround sound of the DSP modes, you have to register the information about the speakers arrangement after all connections are completed.

Before you start, remember....

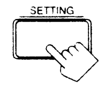
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

Front, Center, and Rear Speaker Setting

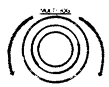
Register the sizes of all the connected speakers.

- When you change your speakers, you need to register the information about the speakers again.

On the front panel ONLY:



1. **Press SETTING repeatedly until "FRONT SPK" (Front Speaker), "CENTER SPK" (Center Speaker) or "REAR SPK" (Rear Speaker) appears on the display.**
   The display changes to show the current setting.



2. **Turn MULTI JOG to select the appropriate item about the speaker selected in the above step.**
   - As you turn it, the display changes to show the following:

→ LARGE ⟶ SMALL ⟶ NONE ⟶

LARGE:	Select this when the speaker size is relatively large.
SMALL:	Select this when the speaker size is relatively small.
NONE:	Select this when you have not connected a speaker. (Not selectable for the front speakers)

3. **Repeat steps 1 and 2 to select the appropriate items for the other speakers.**

Notes:

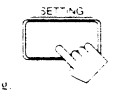
- *Keep the following comment in mind as reference when adjusting.*
  - *If the size of the cone speaker unit built in your speaker is greater than 12 cm (4 ³/₄ inches), select "LARGE," and if it is smaller than 12 cm (4 ³/₄ inches), select "SMALL."*
- *If you have selected "NO" for the subwoofer setting, you can only select "LARGE" for the front speaker setting.*
- *If you have selected "SMALL" for the front speaker setting, you cannot select "LARGE" for the center and rear speaker settings.*

Center Delay Time Setting

Register the delay time of the sound from the center speaker, comparing that of the sound from the front speakers.
If the distance from your listening point to the center speaker is equal to that to the front speakers, select 0 msec. As the distance to the center speaker becomes shorter, increase the delay time.

- 1 msec increase (or decrease) in delay time corresponds to 30 cm (11 ¹³/₁₆ inches) decrease (or increase) in distance.
- When shipped from the factory, delay time is set to 0 msec.

On the front panel ONLY:



1. **Press SETTING repeatedly until "CENTER DELAY" appears on the display.**
   The display changes to show the current setting.

2. **Turn MULTI JOG to select the delay time of the center speaker output.**
   - Turn it clockwise to increase the delay time from 0 msec ("C. DELAY: 0ms") to 5 msec ("C. DELAY: 5ms").
   - Turn it counterclockwise to decrease the delay time from 5 msec ("C. DELAY: 5ms") to 0 msec ("C. DELAY: 0ms").

Note:

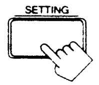
Center delay time setting is not valid for the DVD MULTI playback mode.

Rear Delay Time Setting

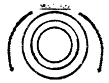
Register the delay time of the sound from the rear speakers, comparing that of the sound from the front speakers.
If the distance from your listening point to the rear speakers is equal to that to the front speakers, select 0 msec. As the distance to the rear speakers becomes shorter, increase the delay time.

- 1 msec increase (or decrease) in delay time corresponds to 30 cm (11 ¹³/₁₆ inches) decrease (or increase) in distance.
- Rear delay time for Dolby Digital, DTS Digital Surround, and MPEG Multichannel is to be set to 5 msec.
- When shipped from the factory, delay time is set to 5 msec.

On the front panel ONLY:



1. **Press SETTING repeatedly until "REAR DELAY" appears on the display.**
   The display changes to show the current setting.



2. **Turn MULTI JOG to select the delay time of the rear speaker output.**
   - Turn it clockwise to increase the delay time from 0 msec ("R. DELAY: 0ms") to 15 msec ("R. DELAY: 15ms").
   - Turn it counterclockwise to decrease the delay time from 15 msec ("R. DELAY: 15ms") to 0 msec ("R. DELAY: 0ms").

Note:

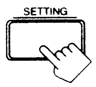
Rear delay time setting is not valid for the DVD MULTI playback mode.

Crossover Frequency Setting

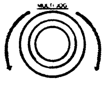
Small speaker cannot reproduce the bass sound very well. So, if you have used a small speaker any for the front, center, or rear channels, this receiver automatically reallocates the bass elements, originally assigned to the channel for which you have connected the small speaker, to another channel (for which you have connected the large speaker).
To use this function properly, you need to set this crossover frequency level according to the size of the small speaker connected.

- This function takes effect only when playing back a source using Dolby Pro Logic, Dolby Digital, DTS Digital Surround, or MPEG Multichannel. However, if you have selected "LARGE" for all speakers (see page 14), this function will not take effect.

On the front panel ONLY:



1. **Press SETTING repeatedly until "CROSSOVER FRQ" (Crossover Frequency) appears on the display.**
   The display changes to show the current setting.



2. **Turn MULTI JOG to select the crossover frequency level according to the size of the small speaker connected.**
   - As you turn it, the display changes to show the following:

     → 80Hz ←→ 100Hz ←→ 120Hz ←

   - Use the following comments as reference when adjusting.

80Hz:	Select this when the cone speaker unit built in the speaker is about 12 cm ($4\frac{3}{4}$ inches).
100Hz:	Select this when the cone speaker unit built in the speaker is about 10 cm ($3\frac{15}{16}$ inches).
120Hz:	Select this when the cone speaker unit built in the speaker is about 8 cm ($3\frac{3}{16}$ inches).

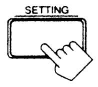
Note:

Crossover frequency setting is not valid for the DVD MULTI playback mode.

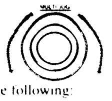
Low Frequency Effect Attenuator Setting

If the bass sound is distorted while playing back a source using Dolby Digital, DTS Digital Surround, or MPEG Multichannel, follow the procedure below.

On the front panel ONLY:



1. **Press SETTING repeatedly until "LFE ATT" (Low Frequency Effect Attenuator) appears on the display.**
   The display changes to show the current setting.



2. **Turn MULTI JOG to select the low frequency effect attenuator level.**
   - As you turn it, the display changes to show the following:

     0dB ←——→ 10dB

0dB:	Normally select this.
10dB:	Select this when the bass sound is distorted.

Note:

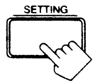
Low frequency effect attenuator setting is not valid for the DVD MULTI playback mode.

Dynamic Range Compression Setting

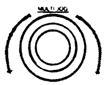
You can compress the dynamic range (difference between maximum sound and minimum sound) of the reproduced sound. This is useful when enjoying surround sound at night.

- This function takes effect only when playing back a source using Dolby Digital.

On the front panel ONLY:



1. **Press SETTING repeatedly until "D. RANGE COMP." (Dynamic Range Compression) appears on the display.**
   The display changes to show the current setting.



2. **Turn MULTI JOG to select the appropriate item about the compression level.**
   - As you turn it, the display changes to show the following:

     → OFF ←→ MID ←→ MAX ←

OFF:	Select this when you want to enjoy surround with its full dynamic range. (No effect applied)
MID:	Select this when you want to reduce the dynamic range a little. (Factory setting)
MAX:	Select this when you want to apply the compression effect fully. (Useful at night)

Note:

Dynamic Range Compression setting is not valid for the DTS Digital Surround, MPEG Multichannel, and DVD MULTI playback mode.

Storing the Basic Settings and Adjustments — One Touch Operation

JVC's One Touch Operation function is used to assign and store different sound settings for each different playing source. By using this function, you do not have to change the settings every time you change the source. The stored settings for the newly selected source are automatically recalled.

The following can be stored for each source:

- Volume level (see page 10)
- Loudness (see page 11)
- Input attenuator mode (see page 11)
- Subwoofer output level (see page 11)
- Balance (see page 12)
- Analog/digital input mode (see page 13)
- SEA modes (see page 22)
- DSP modes
  - 3D-PHONIC mode settings (see page 26)
  - DAP mode settings (see page 26)
  - Surround mode settings (see page 27)
- DVD MULTI playback mode settings (see page 32)

On the front panel ONLY:

To store the sound settings

ONE TOUCH OPERATION

1. **Press ONE TOUCH OPERATION.**
   The ONE TOUCH OPERATION lamp lights up, then the previously memorized settings are recalled.
2. **Adjust the sound using the functions listed above.**
   The newly adjusted settings are memorized.

To recall the sound settings
With the ONE TOUCH OPERATION lamp lit, the settings for the currently selected source are recalled when the source is selected.

To cancel the One Touch Operation function
Press ONE TOUCH OPERATION so that the lamp goes off.
(Even though the One Touch Operation function is canceled, the recalled sound effects remain active.)

Notes:

- *If the source is FM or AM (MW/LW), you can assign a different setting for each band.*
- *The DSP modes and DVD MULTI playback mode cannot be used at the same time.*

Using the Sleep Timer

Using the Sleep Timer, you can fall asleep to music and know the receiver will turn off by itself rather than play all night.

From the remote control ONLY:

Press SLEEP repeatedly.
The SLEEP indicator lights up on the display, and the shut-off time changes as follows (in minutes):

→ 10 → 20 → 30 → 40 → 50 → 60 → 70 → 80 → 90 → 00 (Canceled) → (back to 10)

When the shut-off time comes
The receiver turns off automatically.

To check or change the time remaining until the shut-off time
Press SLEEP once.
The remaining time until the shut-off time appears in minutes.

- To change the shut-off time, press SLEEP repeatedly.

To cancel the Sleep Timer
Press SLEEP repeatedly until "SLEEP 00min." appears on the display. (The SLEEP indicator goes off.)

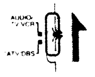
- Turning off the power also cancels the Sleep Timer.

Receiving Radio Broadcasts

You can browse through all the stations or use the preset function to go immediately to a particular station

IMPORTANT:

When using the remote control, check to see if its remote control mode selector is set to the correct position:
To operate this receiver, set it to "AUDIO/TV/VCR" (except when selecting the DBS tuner as the source).

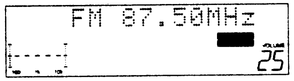


Tuning in Stations Manually

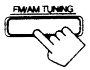
On the front panel ONLY:

1. **Turn SOURCE SELECTOR to select the band (FM or AM — MW/LW).**
   The last received station of the selected band is tuned in.

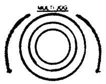
SOURCE SELECTOR



2. **Press FM/AM TUNING.**



3. **Turn MULTI JOG until you find the frequency you want.**
   - Turning it clockwise increases the frequency.
   - Turning it counterclockwise decreases the frequency.
   - When you turn MULTI JOG quickly, the frequency keeps changing until a station is tuned in.



Note:

When a station of sufficient signal strength is tuned in, the TUNED indicator lights up on the display.
When an FM stereo program is received, the STEREO indicator also lights up.

Using Preset Tuning

Once a station is assigned to a channel number, the station can be quickly tuned. You can preset up to 30 FM and 15 AM (MW/LW) stations.

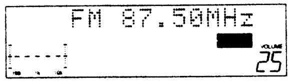
To store the preset stations

Before you start, remember...

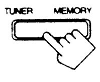
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

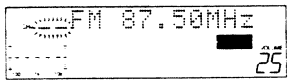
On the front panel ONLY:

1. **Tune in the station you want to preset (see "Tuning in Stations Manually").**
   - If you want to store the FM reception mode for this station, select the FM reception mode you want. See "Selecting the FM Reception Mode" on page 18.



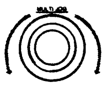
2. **Press TUNER/SEA MEMORY.**





"CH-" appears and the channel number position starts flashing on the display for about 10 seconds.

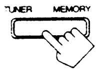
3. **Turn MULTI JOG to select a channel number while the channel number position is flashing.**

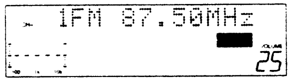


Note:

You can use the 10 keys on the remote control to select the preset number. When using the 10 keys, be sure that they are activated for the tuner, not for the CD and others. (See page 45.)

4. **Press TUNER/SEA MEMORY again while the selected channel number is flashing on the display.**
   The selected channel number stops flashing.
   The station is assigned to the selected channel number.





5. **Repeat steps 1 to 4 until you store all the stations you want.**

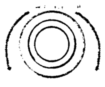
To erase a stored preset station

Storing a new station on a used number erases the previously stored one.

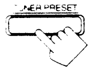
To tune in a preset station

On the front panel:

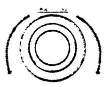
1. **Turn SOURCE SELECTOR to select the band (FM or AM — MW/LW).**
   The last received station of the selected band is tuned in.



2. **Press TUNER PRESET.**

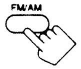


3. **Turn MULTI JOG until you find the channel you want.**
   - Turning it clockwise increases the channel numbers.
   - Turning it counterclockwise decreases the channel numbers.

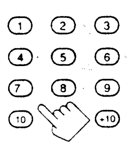


From the remote control:

1. **Press FM/AM.**
   - Each time you press the button, the band alternates between FM and AM (MW/LW).



2. **Press the 10 keys to select a preset channel number.**
   - For channel number 5, press 5.
   - For channel number 15, press +10 then 5.
   - For channel number 20, press +10 then 10.
   - For channel number 30, press +10, +10, then 10.



Note:

When you use the 10 keys on the remote control, be sure that they are activated for the tuner, not for the CD and others. (See page 45.)

Selecting the FM Reception Mode

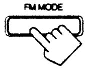
When an FM stereo broadcast is hard to receive or noisy

You can change the FM reception mode while receiving an FM broadcast.

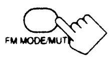
- You can store the FM reception mode for each preset station.

Press FM MODE on the front panel or FM MODE/MUTING on the remote control.

- Each time you press the button, the FM reception mode alternates between "AUTO" and "MONO."



On the front panel



On the remote control

AUTO: When a program is broadcasted in stereo, you will hear stereo sound: when in monaural, you will hear monaural sounds. This mode is also useful to suppress static noise between stations. The MUTE AUTO indicator lights up on the display.

MONO: Reception will be improved although you will lose the stereo effect. In this mode, you will hear noise while tuning into the stations. The MUTE AUTO indicator goes off on the display.

Note:

When using the FM MODE/MUTING button on the remote control, be sure that the 10 keys are activated for tuner, not for the CD and others. (See page 45.)

Assigning Names to Preset Stations

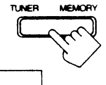
You can assign a name of up to four characters to each preset station. When a preset station is tuned in, its assigned name will appear on the display.

Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- You can use the following characters: Space, A – Z, and 0 – 9.

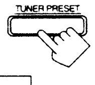
On the front panel ONLY:

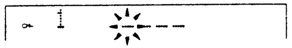
1. **Tune in a preset station.**
   See the left.
2. **Press TUNER/SEA MEMORY.**
   The preset channel number starts flashing for about 10 seconds.



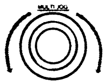
- If you turn MULTI JOG while the preset channel number is flashing, you can change the preset channel number.

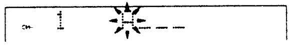
3. **Press TUNER PRESET, while the preset channel number is flashing.**
   The first character position starts flashing.



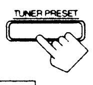


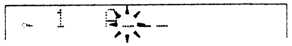
4. **Turn MULTI JOG to select the first character, while the first character position is flashing.**



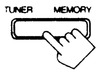


5. **Press TUNER PRESET, while a character you want is flashing.**
   The next character position starts flashing.





6. **Repeat steps 4 and 5 to enter up to four characters.**
7. **Press TUNER/SEA MEMORY while the last selected character is flashing after you have assigned a name.**



To erase the input characters

Insert spaces using the same procedure described above.

Using the RDS (Radio Data System) to Receive FM Stations

RDS allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, the RDS indicator lights up on the display.

With the receiver, you can receive the following types of RDS signals.

PS (Program Service):	Shows commonly known station names
PTY (Program Type):	Shows types of broadcast programs
RT (Radio Text):	Shows text messages the station sends
EON (Enhanced Other Network):	See page 21.

Notes:

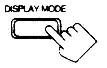
- *RDS is not available for AM (MW/LW) broadcasts.*
- *RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.*

What information can RDS signals provide?

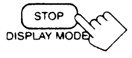
You can see the RDS signals the station sends on the display.

To show the RDS signals

Press DISPLAY MODE while listening to an FM station.

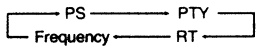

DISPLAY MODE

On the front panel


STOP
DISPLAY MODE

On the remote

- Each time you press the button, the display changes to show you the following information:


PS
PTY
Frequency
RT

PS (Program Service):

While searching, "PS" appears and then the station names will be displayed. "NO PS" appears if no signal is sent.

PTY (Program Type):

While searching, "PTY" appears and then the type of the broadcast program will be displayed. "NO PTY" appears if no signal is sent.

RT (Radio Text):

While searching, "RT" appears and then text messages the station sends will be displayed. "NO RT" appears if no signal is sent.

Frequency:

Station frequency (non-RDS service)

Notes:

- *When pressing DISPLAY MODE on the remote control, make sure that you have selected FM station using the remote control. If not, the DISPLAY MODE button does not work for tuner operation. (Pressing FM/AM activates the remote control for tuner operation.)*
- *If searching finishes at once, "PS," "PTY," and "RT" will not appear on the display.*

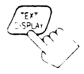
You can also show the RDS information on the TV screen.

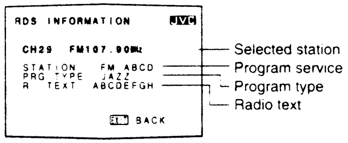
To use this function, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 7), and set the TV's input mode to the proper position to which the receiver is connected.

- When the TV's input mode is incorrect; for example, a different video input or TV tuner mode is selected, you cannot show the RDS information on the TV screen.

Press TEXT DISPLAY while listening to an FM station.

The following information appears on the TV screen.


TEXT DISPLAY


RDS INFORMATION
JVC
CH29 FM107.90MHz
STATION FM ABCD
PRG TYPE JAZZ
R TEXT ABCDEFGH
EXIT BACK
Selected station
Program service
Program type
Radio text

To erase the RDS information, press EXIT.

Note:

The on-screen display will disappear in the following case:
- *if no operation is done for about 10 minutes.*
- *if you do any operation other than explained in this section.*

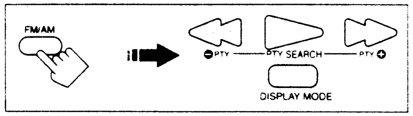
Searching for a Program by PTY Codes

One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels (see page 17) by specifying the PTY codes.

To search for a program using the PTY codes

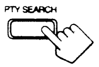
Before you start, remember...

- The PTY Search is only applicable to preset stations.
- To stop searching any time during the process, press PTY SEARCH while searching.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from **step 1** again.
- When pressing the buttons on the remote control, make sure that you have selected the FM station using the remote control. If not, the RDS operation buttons do not work for RDS operation. (Pressing FM/AM activates the remote control for RDS operation.)

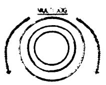

FM/AM
PTY
PTY SEARCH
PTY
DISPLAY MODE

On the front panel:

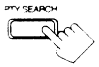
1. **Press PTY SEARCH while listening to an FM station.**
   "PTY SELECT" flashes on the display.



2. **Turn MULTI JOG until the PTY code you want appears on the display, while "PTY SELECT" is flashing.**
   The display gives you the PTY codes described to the right.



3. **Press PTY SEARCH again, while the PTY code selected in the previous step is still on the display.**
   While searching, "SEARCH" and the selected PTY code alternate on the display.
   The receiver searches 30 preset FM stations, stops when it finds the one you have selected, and tunes in that station.



To continue searching after the first stop

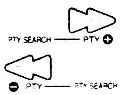
Press PTY SEARCH again while the indications on the display are flashing.

If no program is found, "NOTFOUND" appears on the display.

From the remote control:

1. **Press PTY SEARCH while listening to an FM station.**
   "PTY SELECT" flashes on the display.

2. **Press and hold PTY –/+ until the PTY code you want appears on the display, while "PTY SELECT" is flashing.**
   The display gives you the PTY codes described to the right.


PTY SEARCH
PTY
PTY
PTY SEARCH

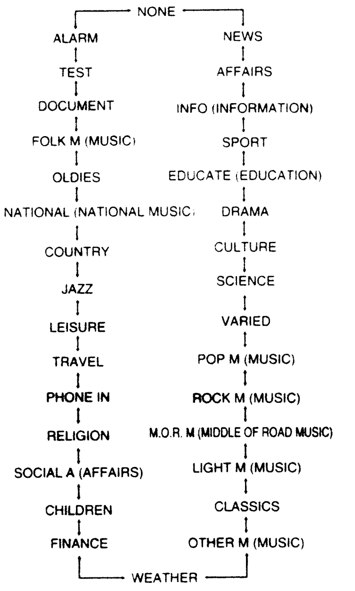
3. **Press PTY SEARCH again, while the PTY code selected in the previous step is still on the display.**
   While searching, "SEARCH" and the selected PTY code alternate on the display.
   The receiver searches 30 preset FM stations, stops when it finds the one you have selected, and tunes in that station.

To continue searching after the first stop

Press PTY SEARCH again while the indications on the display are flashing.

If no program is found, "NOTFOUND" appears on the display.

PTY codes


NONE
ALARM
TEST
DOCUMENT
FOLK M (MUSIC)
OLDIES
NATIONAL (NATIONAL MUSIC)
COUNTRY
JAZZ
LEISURE
TRAVEL
PHONE IN
RELIGION
SOCIAL A (AFFAIRS)
CHILDREN
FINANCE
WEATHER
NEWS
AFFAIRS
INFO (INFORMATION)
SPORT
EDUCATE (EDUCATION)
DRAMA
CULTURE
SCIENCE
VARIED
POP M (MUSIC)
ROCK M (MUSIC)
M.O.R. M (MIDDLE OF ROAD MUSIC)
LIGHT M (MUSIC)
CLASSICS
OTHER M (MUSIC)

When an emergency broadcast (ALARM signal) is sent from an FM station:

The receiver automatically tunes in the station except in the following cases:

- When you are listening to non-RDS stations (all AM — MW/LW and some FM stations).
- When the receiver is in standby mode.

While receiving an emergency broadcast, "ALARM" appears on the display.

The TEST signal is used for equipment test — whether it can receive the ALARM signal correctly.

The TEST signal makes the receiver work in the same way as the ALARM signal does. If the TEST signal is received, the receiver automatically switches to the station broadcasting the TEST signal. While receiving the test signal, "TEST" appears on the display.

Switching to a Broadcast Program of Your Choice Temporarily

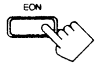
Another convenient RDS service is called "EON (Enhanced Other Network)."
The EON indicator lights up while receiving a station with the EON code.
This allows the receiver to switch temporarily to a broadcast program of your choice (NEWS, TA, and/or INFO) from a different station except in the following cases:

- When you are listening to non-RDS stations (all AM — MW/LW and some FM stations).
- When the last received FM station is a non-RDS station.
- When the receiver is in standby mode.

Before you start, remember...

- The EON function is only applicable to preset stations.

On the front panel ONLY:



1. **Press EON so that the last selected program type appears on the display.**
   The receiver enters EON standby mode. When the receiver is in EON standby mode, the receiver is ready to receive the EON data (TA/NEWS/INFO) you select.

TA/NEWS/INFO

2. **Press TA/NEWS/INFO until the program type you want appears on the display.**
   - Each time you press the button, the display changes to show the following:

   → TA → NEWS/INFO → TA/INFO → TA/NEWS
   ← NEWS ← INFO ← TA/NEWS/INFO ←

TA:	Traffic Announcement in your area.
NEWS:	News.
INFO:	Program the purpose of which is to impart advice in the widest sense.

CASE 1 **If there is no station broadcasting the program you have selected**

The receiver continues playing the current source (all sources except AM — MW/LW).

⇩

When a station starts broadcasting the program you have selected, the receiver automatically switches to the station. The indicator of received PTY code starts flashing.

⇩

When the program is over, the receiver goes back to the previously selected source, but still remains in EON standby mode. The indicator of received PTY code stops flashing and remains lit.

CASE 2 **If there is a station broadcasting the program you have selected**

The receiver changes the source (all sources except AM — MW/LW), and tunes in the station. The indicator of received PTY code starts flashing.

⇩

When the program is over, the receiver goes back to the previously selected source, but still remains in EON standby mode. The indicator of received PTY code stops flashing and remains lit.

CASE 3 **If the FM station you are listening to is broadcasting the program you have selected**

The receiver continues to receive the station, but the indicator of received PTY code starts flashing.

⇩

When the program is over, the indicator of received PTY code stops flashing and remains lit, but the receiver remains in EON standby mode.

To stop listening to the program selected by EON
Press EON so that the program type (TA/NEWS/INFO) indicator goes off from the display. The receiver enters EON off mode and goes back to the previously selected source.

- Each time you press EON, the EON mode alternates between standby mode and off mode.

Notes:

- *EON data sent from some stations may not be compatible with this receiver.*
- *In EON standby mode, if you change the source to AM (MW/LW) or if you carry out synchronized recording (see page 39), EON standby mode is canceled temporarily. The receiver goes back to EON standby mode again when you have finished that operation.*
- *While listening to a program tuned in by the EON function, you cannot use source selecting buttons and PTY SEARCH button.*
- *While listening to a program tuned in by the EON function, you cannot perform the on-screen operations (pages 34 and 41).*

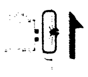
CAUTION:

When the source alternates intermittently between the station tuned in by the EON function and the currently selected source, press EON to cancel the EON function.
If you do not press the button, the currently tuned station is received finally, and the indication of the EON program type flashing on the display disappears.

Using the SEA Modes

The SEA (Sound Effect Amplifier) modes give you control of the way your music sounds.

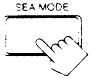
IMPORTANT:



When using the remote control, check to see if its remote control mode selector is set to the correct position:
To operate this receiver, set it to "AUDIO/TV VCR" (except when selecting the DBS tuner as the source).

Selecting Your Favorite SEA Mode

On the front panel:



Press SEA MODE repeatedly until the SEA mode you want appears on the display.

- Each time you press the button, the SEA mode changes as follows:

→ SEA ROCK → SEA MUSICAL → SEA MOVIE
SEA COUNTRY
SEA OFF ← SEA USERMODE ← SEA JAZZ ←

SEA ROCK:	Gives a heavy sound. Both high and low frequencies are boosted.
SEA MUSICAL:	Enhances the mid-frequency range, which the human voice is mostly made up of.
SEA MOVIE:	Adds breadth to sounds so you feel like you are in a movie theater.
SEA COUNTRY:	Enhances the high-frequency range so that instruments such the violin and banjo are emphasized.
SEA JAZZ:	Gives a feeling of a live atmosphere. Good for acoustic music.
SEA USERMODE:	Your original SEA adjustment (see the right).
SEA OFF:	No SEA mode is applied (see below).

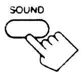
Notes:

- *The SEA modes cannot be used for recording.*
- *When the SEA mode is turned on, the SEA indicator lights up on the display.*
- *When the SEA mode is used with the DAP mode (see page 26), sounds may be distorted. If this happens, turn off the DAP mode or decrease the effect level of the DAP mode.*

To cancel the SEA mode

Press SEA MODE repeatedly until "SEA OFF" appears. The SEA indicator goes off from the display.

From the remote control:



1. **Press SOUND.**
   The 10 keys are activated for sound adjustments.

2. **Press SEA MODE repeatedly until the SEA mode you want appears on the display.**

To cancel the SEA mode

Press SEA MODE repeatedly until "SEA OFF" appears in step 2 above. The SEA indicator goes off from the display.

Creating Your Own SEA Mode

You can adjust and store your own SEA adjustment into memory (SEA USERMODE).

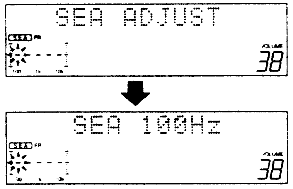
Before you start, remember...

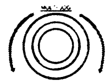
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

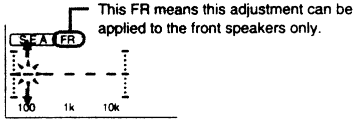
If you do not want to store your adjustment, but rather want to adjust the SEA temporarily, skip step 4 below.

1. **Press SEA ADJUST repeatedly until the frequency range (100Hz, 1kHz or 10kHz) you want appears on the display.**

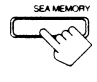




2. **Turn MULTI JOG to adjust the SEA level of the selected frequency range.**
   - Turning it clockwise increases the level.
   - Turning it counterclockwise decreases the level.


This FR means this adjustment can be applied to the front speakers only.
SEA
FR
100
1k
10k

3. **Repeat step 1 and 2 to adjust other frequency ranges if necessary.**



4. **Press TUNER/SEA MEMORY.**
   Your adjustment is stored into the SEA USERMODE.

To recall your own SEA adjustment

Press SEA MODE repeatedly until "SEA USERMODE" appears.

To erase a stored adjustment

Storing a new adjustment into SEA USERMODE erases the previously stored one.

Using the DSP Modes

The built-in Surround Processor provides three types of the DSP (Digital Signal Processor) mode — 3D-PHONIC mode, DAP (Digital Acoustic Processor) mode and Surround mode.

3D-PHONIC modes

The 3D-PHONIC mode gives you such a nearly surround effect as it is reproduced through the Dolby Surround decoder, which is widely used to reproduce sounds with a feeling of movement like those experienced in movie theaters. The 3D-PHONIC mode is the result of research on sound localization technology carried out at JVC for many years. **This mode can be used when the front speakers are connected to this receiver (without respect to the rear/center speaker connection).**

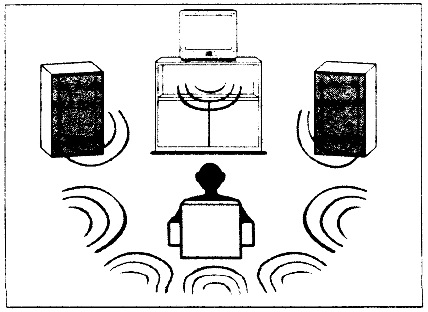
- You can select either 3D ACTION or 3D THEATER to your preference when playing an analog or Linear PCM (digital) source.
- You can select either 3D DIGITAL or 3D THEATER to your preference when playing a Dolby Digital, DTS Digital Surround, or MPEG Multichannel source.

3D ACTION:	Best for action and war movies — where the action is fast and explosive.
3D DIGITAL:	Reproduces multi-sound source encoded with Dolby Digital, DTS Digital Surround, or MPEG Multichannel.
3D THEATER:	Reproduces the sound field of a large theater. This mode can be selected when only front speakers are connected to this receiver and "REAR SPK" and "CENTER SPK" is set to "NONE" (see page 14).

Note on the subwoofer sound when using the 3D-PHONIC modes

Sound will or will not come out of the subwoofer according to the selected 3D-PHONIC mode.

- With **"3D ACTION"** selected: No sound comes out.
- With **"3D DIGITAL"** selected: Sound comes out if the subwoofer channel signals come into this receiver (LFE of the signal indicators lights up — see page 10) while playing a multi-sound source encoded with Dolby Digital, DTS Digital Surround, or MPEG Multichannel.
- With **"3D THEATER"** selected:
  - If "FRONT SPK" is set to "SMALL," sound comes out while playing any source.
  - If "FRONT SPK" is set to "LARGE," sound comes out only if the subwoofer channel signals come into this receiver (LFE of the signal indicators lights up — see page 10) while playing a multi-sound source encoded with Dolby Digital, DTS Digital Surround, or MPEG Multichannel.

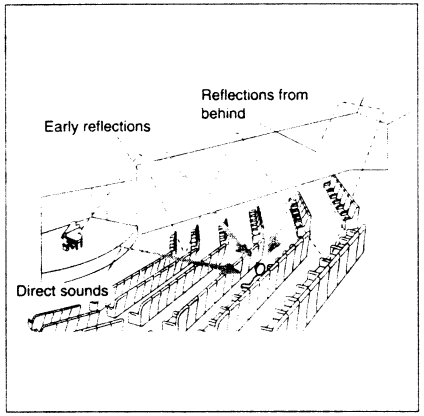


DAP modes

The sound heard in a concert hall or club consists of direct sound and indirect sound — early reflections and reflections from behind. Direct sounds reach the listener directly without any reflection. On the other hand, indirect sounds are delayed by the distances of the ceiling and walls. These direct sounds and indirect sounds are the most important elements of the acoustic surround effects. The DAP mode can create these important elements, and gives you a real "being there" feeling. **This mode can be used when the front speakers are connected to this receiver (without respect to the rear/center speaker connection).**

You can select one of the following to your preference.

LIVE CLUB:	Gives the feeling of a live music club with a low ceiling.
DANCE CLUB:	Gives a throbbing bass beat.
HALL:	Gives clear vocal and the feeling of a concert hall.
PAVILION:	Gives the spacious feeling of a pavilion with a high ceiling.



Surround modes

With this receiver, you can use four types of the Surround mode. **Following modes cannot be used when only the front speakers are connected to this receiver (without the rear speakers or center speaker).**

*Dolby Surround (Dolby Digital and Dolby Pro Logic)**

Used to watch the soundtracks of software encoded with Dolby Digital (bearing the mark DOLBY DIGITAL) or with Dolby Surround (bearing the mark DOLBY SURROUND).

Dolby Digital and Dolby Pro Logic can be selected automatically according to software played back and the speaker arrangement you have done.

- To enjoy the software encoded with Dolby Digital, you must connect the source component using the digital terminal on the rear of this receiver. (See page 8.)

*DTS Digital Surround***

DTS Digital Surround is a discrete 5.1 channel digital audio format available on CD, LD, and DVD software.

To watch the soundtracks of video software bearing the mark dts, the receiver can provide you with DTS Digital Surround decoder.

DTS Digital Surround is automatically selected according to software played back and the speaker arrangement you have done.

- To enjoy the software encoded with DTS Digital Surround, you must connect the source component using the digital terminal on the rear of this receiver. (See page 8.)

Note:

A CD encoded with DTS Digital Surround cannot be played back through this receiver.

MPEG Multichannel

MPEG Multichannel is another discrete 5.1 channel digital audio format available on DVD software, and uses encoding method called MPEG2-Audio. (MPEG stands for "Motion Picture Expert Group" and has been originally developed for compressing video signals.)

To watch the soundtracks of video software bearing the mark MPEG Multichannel, the receiver can provide you with MPEG Multichannel decoder.

MPEG Multichannel is automatically selected according to software played back and the speaker arrangement you have done.

- To enjoy the software encoded with MPEG Multichannel, you must connect the source component using the digital terminal on the rear of this receiver. (See page 8.)

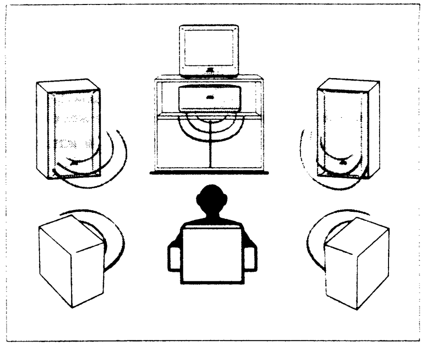
JVC Theater Surround

In order to reproduce a more realistic sound field in your listening room while playing soundtracks of software encoded:

- with Dolby Surround (bearing the mark DOLBY SURROUND),
- with Dolby Digital (bearing the mark DOLBY DIGITAL),
- with DTS Digital Surround (bearing the mark dts),
- with MPEG Multichannel (bearing the mark MPEG Multichannel),

you can use JVC Theater Surround.

- When playing a source encoded with Dolby Digital, with DTS Digital Surround, or MPEG Multichannel, "DIG THEATER" is selected automatically.
- When playing a source encoded with Dolby Surround, "THEATER" is selected automatically.



Notes:

- *The DSP modes have no effect on monaural sources.*
- *The DSP modes cannot be used for recording an analog source.*
- *When you select "DVD MULTI" as the source to play, you cannot select or adjust the DSP modes.*
- *The* PRO LOGIC *indicator lights up when the Dolby Pro Logic decoder built in this receiver is activated.*
- *The* DD DIGITAL *indicator lights up when the signals encoded with Dolby Digital come into the receiver.*
- *The Dolby Pro Logic decoder is used not only for the analog sources but also for the sources encoded with Dolby Digital, DTS Digital Surround, or MPEG Multichannel in the following cases:*
  - *When only front channel signals are encoded.*
  - *When front channel and monaural rear channel signals are encoded.*

IMPORTANT:

Before recording a digital source, turn off the DSP mode.

DVD MULTI Playback Mode

This receiver provides the DVD MULTI playback mode for reproducing the analog discrete 5.1 channel output mode of the DVD player or other equipment.

You can adjust the DVD MULTI playback mode while playing back a video software such as a DVD using the analog discrete 5.1 channel output mode.

- For the DVD MULTI playback mode connection, see page 7.
- For details on the DVD MULTI playback mode, see page 32.

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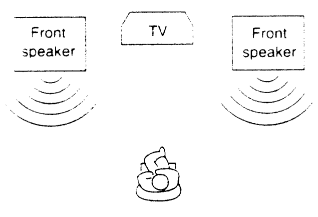
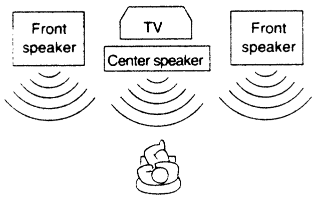
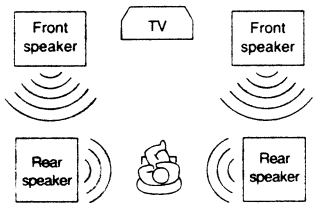
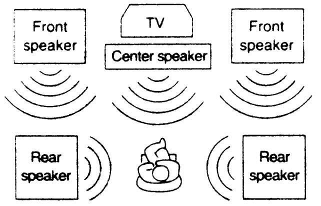
** *Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942 and other world-wide patents issues and pending. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc. ©1996 Digital Theater Systems, Inc. All rights reserved.*

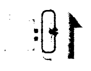
Available DSP Modes According to the Speaker Arrangement

Available DSP modes will vary depending on how many speakers are used with this receiver.
Make sure that you have set the speaker information correctly (see page 14).

Speaker arrangements	Available DSP modes
	Each time you press DSP MODE on the front panel or SURROUND MODE on the remote control, the DSP modes change as follows: • 3D THEATER • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION (or 3D DIGITAL) • DSP OFF (DSP mode is canceled)
	Each time you press DSP MODE on the front panel or SURROUND MODE on the remote control, the DSP modes change as follows: **By pressing DSP MODE:** • THEATER (or DIG THEATER) • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION (or 3D DIGITAL) • DSP OFF (DSP mode is canceled) **To activate the Surround mode,** press DOLBY/DTS/MPEG SURROUND ON/OFF button so that the lamp on the button lights up. **By pressing SURROUND MODE:** • DOLBY/DTS/MPEG SURROUND (DOLBY PRO LOGIC, DOLBY DIGITAL, DTS SURROUND, or MPEG SURROUND) • THEATER (or DIG THEATER) • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION (or 3D DIGITAL) • DSP OFF (DSP mode is canceled) **To activate the Surround mode,** you can also use the SURROUND ON/OFF button.
 Front speaker TV Front speaker Rear speaker Rear speaker	
 Front speaker TV Center speaker Front speaker Rear speaker Rear speaker	**Note on the center speaker sound when using the DAP modes:** Sounds come out of the center speaker only if the following take place at the same time: • If "CENTER SPK" is set to "LARGE" or "SMALL." • If the center channel signals come into this receiver (C of the signal indicators lights up — see page 10) while playing a multi-sound source encoded with Dolby Digital, DTS Digital Surround, or MPEG Multichannel. In this case, you cannot adjust the center speaker output level.

IMPORTANT:

When using the remote control, check to see if its remote control mode selector is set to the correct position:
To operate this receiver, set it to "AUDIO/TV/VCR" (except when selecting the DBS tuner as the source).

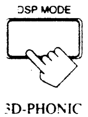


Adjusting the 3D-PHONIC Modes

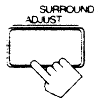
Once you have adjusted the 3D-PHONIC modes, the adjustment is memorized for each 3D-PHONIC mode.

Before you start, remember...
- **Make sure that you have set the speaker information correctly (see page 14).**
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

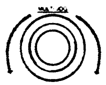
On the front panel:



1. **Press DSP MODE repeatedly until "3D ACTION (or 3D DIGITAL)" or "3D THEATER" appears on the display.**
   The 3D-PHONIC, DSP, PRO LOGIC and selected 3D-PHONIC mode indicators also light up on the display.



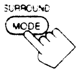
2. **Adjust the effect level.**
   1) **Press BALANCE/SURROUND ADJUST repeatedly until "DSP EFFECT" appears on the display.**
      The display changes to show the current setting.
   2) **Turn MULTI JOG to select the effect level.**
      - As you turn it, the effect level changes as follows:



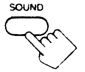
DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 → DSP EFFECT 4 → DSP EFFECT 5 → (back to DSP EFFECT 1)

As the number increases, the selected 3D-PHONIC mode becomes stronger.

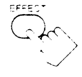
From the remote control:



1. **Press SURROUND MODE repeatedly until "3D ACTION (or 3D DIGITAL)" or "3D THEATER" appears on the display.**
   The 3D-PHONIC, DSP, PRO LOGIC and selected 3D-PHONIC mode indicators also light up on the display.



2. **Press SOUND.**
   The 10 keys are activated for sound adjustments.



3. **Press EFFECT to select an effect level you want.**
   - Each time you press the button, the effect level changes as follows:

DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 → DSP EFFECT 4 → DSP EFFECT 5 → (back to DSP EFFECT 1)

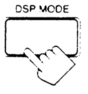
As the number increases, the selected 3D-PHONIC mode becomes stronger.

Adjusting the DAP Modes

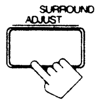
Once you have adjusted the DAP modes, the adjustment is memorized for each DAP mode.

Before you start, remember...
- **Make sure that you have set the speaker information correctly (see page 14).**
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- You cannot adjust the rear speaker output level when you have set "REAR SPK" to "NONE." See page 14.
- When the DAP mode is used with the SEA mode (see page 22), sounds may be distorted. If this happens, turn off the SEA mode.

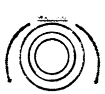
On the front panel:



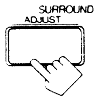
1. **Press DSP MODE repeatedly until the DAP mode — LIVE CLUB, DANCE CLUB, HALL, or PAVILION — appears on the display.**
   The DSP and the selected DAP mode indicators also light up on the display.
   - When you have set "REAR SPK" to "NONE," the 3D-PHONIC indicator also lights up.



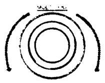
2. **Adjust the speaker output levels.**
   1) **Press BALANCE/SURROUND ADJUST repeatedly until one of the indications appears on the display.**
      "REAR L LEVEL":
      To adjust the left rear speaker level.
      "REAR R LEVEL":
      To adjust the right rear speaker level.
   2) **Turn MULTI JOG to adjust the selected speaker output level (from –10 dB to +10 dB).**
   3) **Repeat 1) and 2) to adjust the other speaker output level.**



3. Adjust the effect level.



1) **Press BALANCE/SURROUND ADJUST repeatedly until "DSP EFFECT" appears on the display.**
   The display changes to show the current setting.



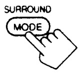
2) **Turn MULTI JOG to select the effect level.**
   - As you turn it, the effect level changes as follows:

→ DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 ┐
└── DSP EFFECT 5 ←── DSP EFFECT 4 ←──┘

As the number increases, the selected DAP mode becomes stronger.

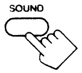
From the remote control:

1. Press SURROUND MODE repeatedly until the DAP mode — LIVE CLUB, DANCE CLUB, HALL, or PAVILION — appears on the display.



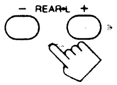
The DSP and the selected DAP mode indicators also light up on the display.

2. Press SOUND.

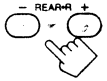


The 10 keys are activated for sound adjustments.

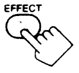
3. Adjust the speaker output levels.



- To adjust the left rear speaker level, press REAR•L –/+ (from –10 dB to +10 dB).
- To adjust the right rear speaker level, press REAR•R –/+ (from –10 dB to +10 dB).



4. Press EFFECT to select an effect level you want.



- Each time you press the button, the effect level changes as follows:

→ DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 ┐
└── DSP EFFECT 5 ←── DSP EFFECT 4 ←──┘

As the number increases, the selected DAP mode becomes stronger.

Adjusting the Surround Modes

Once you have adjusted the Surround modes, the adjustment is memorized for each Surround mode.

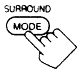
Dolby/DTS/MPEG Surround adjustments

Before you start, remember...

- **Make sure that you have set the speaker information correctly (see page 14).**
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- You cannot adjust the rear speaker output levels when you have set "REAR SPK" to "NONE." See page 14.
- You cannot adjust the center speaker output level and center tone when you have set "CENTER SPK" to "NONE." See page 14.

From the remote control:

1. Press SURROUND MODE repeatedly until the mode — PRO LOGIC, DOLBY DIGITAL, DTS SURROUND, or MPEG SURROUND — appears on the display.

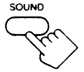


- When "PRO LOGIC" is selected, the PRO LOGIC indicator lights up on the display.

Note:

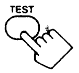
You can also press SURROUND ON/OFF to activate an appropriate Surround mode — PRO LOGIC, DOLBY DIGITAL, DTS SURROUND, MPEG SURROUND. Each time you press the button, the Surround mode turns on and off alternately.

2. Press SOUND.



The 10 keys are activated for sound adjustments.

3. Press TEST to check the speaker output balance.

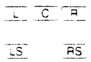


"TEST TONE L" starts flashing on the display, and a test tone comes out of the speakers in the following order:

→ TEST TONE L (Left front speaker) → TEST TONE C (Center speaker) → TEST TONE R (Right front speaker) ┐
└── TEST TONE LS (Left rear speaker) ←── TEST TONE RS (Right rear speaker) ←──┘

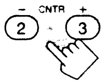
Notes:

- *You can adjust the speaker output levels without outputting the test tone.*
- *No test tone comes out of the center speaker when "CENTER SPK" is set to "NONE" (see page 14).*
- *No test tone comes out of the rear speakers when "REAR SPK" is set to "NONE" (see page 14).*
- *If the TV is turned on and the proper video input is selected on the TV, the test tone screen will appear on the TV.*
- *The signal indicators also light on the display while the test tone comes out of the speakers.*

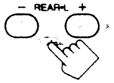


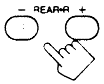
L: Lights when the test tone comes out of the left front speaker.
C: Lights when the test tone comes out of the center speaker.
R: Lights when the test tone comes out of the right front speaker.
RS: Lights when the test tone comes out of the right rear speaker.
LS: Lights when the test tone comes out of the left rear speaker.

4. Adjust the speaker output levels.

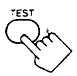


- To adjust the center speaker level, press CNTR –/+ (from –10 dB to +10 dB).
- To adjust the left rear speaker level, press REAR•L –/+ (from –10 dB to +10 dB).
- To adjust the right rear speaker level, press REAR•R –/+ (from –10 dB to +10 dB).

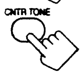




5. Press TEST again to stop the test tone.



6. Press CNTR TONE to select the center tone level you want.

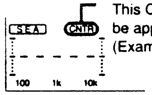


The center tone adjustment affects the mid-frequency range, which the human voice is mostly made up of.

- Each time you press the button, the display changes to show the following:

→ SOFT 2 → SOFT 1 → FLAT → SHARP 1 → SHARP 2 ┐
└──────────────────────────┘

Adjusted levels are also shown on the equalizer display.



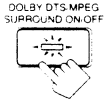
This CNTR means this adjustment can be applied to the center speaker only. (Example: When "FLAT" is selected.)

To make the dialogue clearer, select "SHARP 1" (little) or "SHARP 2" (much).
To make the dialogue softer, select "SOFT 1" (little) or "SOFT 2" (much).
When "FLAT" is selected, no adjustment is applied.

On the front panel:

You can also use the buttons on the front panel to adjust the Surround modes. However, no test tone is available when using the buttons on the front panel. So, make adjustments while listening to the sound of the source played back.

1. Press DOLBY/DTS/MPEG SURROUND ON/OFF to activate an appropriate Surround mode — PRO LOGIC, DOLBY DIGITAL, DTS SURROUND, or MPEG SURROUND.

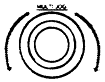


- Each time you press the button, the Surround mode turns on and off alternately.
- When "PRO LOGIC" is selected, the PRO LOGIC indicator lights up on the display.

2. Adjust the speaker output levels.

SURROUND
ADJUST

1) **Press BALANCE/SURROUND ADJUST repeatedly until one of the indications appears on the display.**
   "CENTER LEVEL":
   To adjust the center speaker level.
   "REAR L LEVEL":
   To adjust the left rear speaker level.
   "REAR R LEVEL":
   To adjust the right rear speaker level.

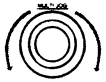


2) **Turn MULTI JOG to adjust the selected speaker output level (from –10 dB to +10 dB).**
3) **Repeat 1) and 2) to adjust the other speaker output levels.**

3. Adjust the center tone.

SURROUND
ADJUST

1) **Press BALANCE/SURROUND ADJUST repeatedly until "CENTER TONE" appears on the display.**
   The display changes to show the current setting.



2) **Turn MULTI JOG to select the center tone level you want.**
   - As you turn it, the display changes to show the following:

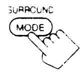
SOFT 2 ←→ SOFT 1 ←→ FLAT ←→ SHARP 1 ←→ SHARP 2

JVC Theater Surround adjustments

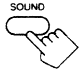
Before you start, remember...

- **Make sure that you have set the speaker information correctly (see page 14).**
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- You cannot adjust the rear speaker output levels when you have set "REAR SPK" to "NONE." See page 14.
- You cannot adjust the center speaker output level and center tone when you have set "CENTER SPK" to "NONE." See page 14.

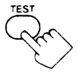
From the remote control:



1. **Press SURROUND MODE repeatedly until "THEATER" or "DIG THEATER" appears on the display.**
   - When "THEATER" is selected, the PRO LOGIC, DSP, and THEATER indicators also light up on the display.
   - When "DIG THEATER" is selected, the DSP and THEATER indicators also light up on the display.



2. **Press SOUND.**
   The 10 keys are activated for sound adjustments.

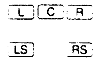


3. **Press TEST to check the speaker output balance.**
   "TEST TONE L" starts flashing on the display, and a test tone comes out of the speakers in the following order:

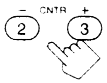
┌→ TEST TONE L (Left front speaker) → TEST TONE C (Center speaker) → TEST TONE R (Right front speaker) ┐
└── TEST TONE LS (Left rear speaker) ← TEST TONE RS (Right rear speaker) ←┘

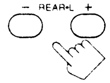
Notes:

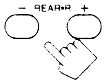
- *You can adjust the speaker output levels without outputting the test tone.*
- *No test tone comes out of the center speaker when "CENTER SPK" is set to "NONE" (see page 14).*
- *No test tone comes out of the rear speakers when "REAR SPK" is set to "NONE" (see page 14).*
- *If the TV is turned on and the proper video input is selected on the TV, the test tone screen will appear on the TV.*
- *The signal indicators also light on the display while the test tone comes out of the speakers.*



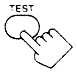
L: Lights when the test tone comes out of the left front speaker.
C: Lights when the test tone comes out of the center speaker.
R: Lights when the test tone comes out of the right front speaker.
RS: Lights when the test tone comes out of the right rear speaker.
LS: Lights when the test tone comes out of the left rear speaker.



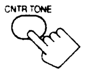




4. **Adjust the speaker output levels.**
   - To adjust the center speaker level, press CNTR –/+ (from –10 dB to +10 dB).
   - To adjust the left rear speaker level, press REAR•L –/+ (from –10 dB to +10 dB).
   - To adjust the right rear speaker level, press REAR•R –/+ (from –10 dB to +10 dB).



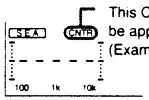
5. **Press TEST again to stop the test tone.**



6. **Press CNTR TONE to select the center tone level you want.**
   The center tone adjustment affects the mid-frequency range, which the human voice is mostly made up of.
   - Each time you press the button, the display changes to show the following:

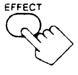
┌→ SOFT 2 → SOFT 1 → FLAT → SHARP 1 → SHARP 2 ┐
└──────────────────────────────────────┘

Adjusted levels are also shown on the equalizer display.



This CNTR means this adjustment can be applied to the center speaker only. (Example: When "FLAT" is selected.)

To make the dialogue clearer, select "SHARP 1" (little) or "SHARP 2" (much).
To make the dialogue softer, select "SOFT 1" (little) or "SOFT 2" (much).
When "FLAT" is selected, no adjustment is applied.



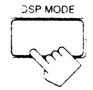
7. **Press EFFECT to select an effect level you want.**
   - Each time you press the button, the effect level changes as follows:

┌→ DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 ┐
└── DSP EFFECT 5 ← DSP EFFECT 4 ←┘

As the number increases, JVC Theater Surround becomes stronger.

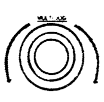
On the front panel:

You can also use the buttons on the front panel to adjust the Surround modes. However, no test tone is available when using the buttons on the front panel. So, make adjustments while listening to the sound of the source played back.

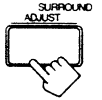


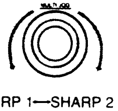
1. **Press DSP MODE repeatedly until "THEATER" or "DIG THEATER" appears on the display.**
   - When "THEATER" is selected, the PRO LOGIC, DSP, and THEATER indicators light up on the display.
   - When "DIG THEATER" is selected, the DSP and THEATER indicators light up on the display.

SURROUND
ADJUST



2. **Adjust the speaker output levels.**
   1) **Press BALANCE/SURROUND ADJUST repeatedly until one of the indications appears on the display.**
      "CENTER LEVEL":
      To adjust the center speaker level.
      "REAR L LEVEL":
      To adjust the left rear speaker level.
      "REAR R LEVEL":
      To adjust the right rear speaker level.
   2) **Turn MULTI JOG to adjust the selected speaker output level (from –10 dB to +10 dB).**
   3) **Repeat 1) and 2) to adjust the other speaker output levels.**

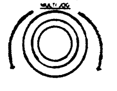




3. **Adjust the center tone.**
   1) **Press BALANCE/SURROUND ADJUST repeatedly until "CENTER TONE" appears on the display.**
      The display changes to show the current setting.
   2) **Turn MULTI JOG to select the center tone level you want.**
      - As you turn it, the display changes to show the following:

SOFT 2 ⟷ SOFT 1 ⟷ FLAT ⟷ SHARP 1 ⟷ SHARP 2

SURROUND
ADJUST



4. **Adjust the effect level.**
   1) **Press BALANCE/SURROUND ADJUST repeatedly until "DSP EFFECT" appears on the display.**
      The display changes to show the current setting.
   2) **Turn MULTI JOG to select the effect level.**
      - As you turn it, the effect level changes as follows:

┌→ DSP EFFECT 1 → DSP EFFECT 2 → DSP EFFECT 3 ┐
└→ DSP EFFECT 5 ⟷ DSP EFFECT 4 ←┘

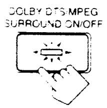
As the number increases, JVC Theater Surround becomes stronger.

Activating the DSP Modes

You can use only one DSP mode at a time. When a DSP mode is activated, another DSP mode is canceled if in use.

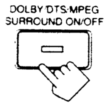
For Dolby Pro Logic, Dolby Digital, DTS Digital Surround, and MPEG Multichannel

On the front panel:



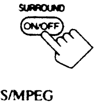
1. **Press DOLBY/DTS/MPEG SURROUND ON/OFF so that the lamp on the button lights up.**
   - Each time you press the button, the Dolby/DTS/MPEG Surround turns on and off alternately.
2. **Select and play a sound source.**
   - To enjoy Dolby Pro Logic, play back a software encoded with Dolby Surround and labeled with DOLBY SURROUND mark.
   - To enjoy Dolby Digital, play back a software encoded with Dolby Digital and labeled with DOLBY DIGITAL mark.
   - To enjoy DTS Digital Surround, play back a software encoded with DTS Digital Surround and labeled with dts mark.
   - To enjoy MPEG Multichannel, play back a software encoded with MPEG Multichannel and labeled with MPEG Multichannel mark.

To cancel the Dolby/DTS/MPEG Surround mode



Press DOLBY/DTS/MPEG SURROUND ON/OFF again so that the lamp on the button goes off. ("SURROUND OFF" appears on the display.)

From the remote control:



1. **Press SURROUND ON/OFF so that the lamp on the DOLBY/DTS/MPEG SURROUND ON/OFF button on the front panel lights up.**
   - Each time you press the button, the Dolby/DTS/MPEG Surround turns on and off alternately.
   - You can also turn on Dolby/DTS/MPEG Surround by pressing SURROUND MODE. (See page 25 for more details.)
2. **Select and play a sound source.**
   - To enjoy Dolby Pro Logic, play back a software encoded with Dolby Surround and labeled with DOLBY SURROUND mark.
   - To enjoy Dolby Digital, play back a software encoded with Dolby Digital and labeled with DOLBY DIGITAL mark.
   - To enjoy DTS Digital Surround, play back a software encoded with DTS Digital Surround and labeled with dts mark.
   - To enjoy MPEG Multichannel, play back a software encoded with MPEG Multichannel and labeled with MPEG Multichannel mark.

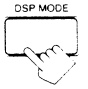
To cancel the Dolby/DTS/MPEG Surround mode

SURROUND
ON/OFF

Press SURROUND ON/OFF again.
("SURROUND OFF" appears on the display.)

For the other DSP modes

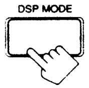
On the front panel:



1. **Press DSP MODE repeatedly until the mode you want appears on the display.**
   - Each time you press the button, the DSP modes change. (See page 25 for more details.)

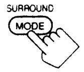
2. **Select and play a sound source.**
   - To enjoy 3D-PHONIC and JVC Theater Surround, play back a software:
     - encoded with Dolby Surround and labeled with DOLBY SURROUND mark.
     - encoded with Dolby Digital and labeled with DOLBY DIGITAL mark.
     - encoded with DTS Digital Surround and labeled with dts mark.
     - encoded with MPEG Multichannel and labeled with MPEG Multichannel mark.

To cancel the DSP mode



Press DSP MODE repeatedly until "DSP OFF" appears on the display.

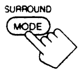
From the remote control:



1. **Press SURROUND MODE repeatedly until the DSP mode you want appears on the display.**
   - Each time you press the button, the DSP modes change. You can also turn on Dolby/DTS/MPEG Surround. (See page 25 for more details.)

2. **Select and play a sound source.**
   - To enjoy 3D-PHONIC and JVC Theater Surround, play back a software:
     - encoded with Dolby Surround and labeled with DOLBY SURROUND mark.
     - encoded with Dolby Digital and labeled with DOLBY DIGITAL mark.
     - encoded with DTS Digital Surround and labeled with dts mark.
     - encoded with MPEG Multichannel and labeled with MPEG Multichannel mark.

To cancel the DSP mode



Press SURROUND MODE repeatedly until "DSP OFF" appears on the display.

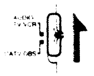
MEMO

Use this column to write down your DSP mode adjustments for your future reference.

Using the DVD MULTI Playback Mode

This receiver provides the DVD MULTI playback mode for reproducing the analog discrete output mode of the DVD player. Before playing back a DVD, refer also to the manual supplied with the DVD player.

IMPORTANT:



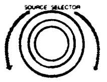
When using the remote control, check to see if its remote control mode selector is set to the correct position:
To operate this receiver, set it to "AUDIO/TV/VCR" (except when selecting the DBS tuner as the source).

Activating the DVD MULTI Playback Mode

You can adjust the DVD MULTI playback mode while playing back a DVD using the analog discrete output mode on the DVD player. Once you made adjustments, the receiver memorizes the adjustments until you change them. You also need to set the DVD player to the analog discrete output mode.

Before you start, remember...
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel:



1. **Turn SOURCE SELECTOR until "DVD MULTI" appears on the display.**

   Note:

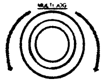
   When you select "DVD MULTI" as the source to play, the DSP mode is canceled temporarily, and the DOLBY/DTS/MPEG SURROUND ON/OFF and DSP MODE buttons do not work.

2. **Select the analog discrete output mode on the DVD player, and start playing a DVD.**
   - Refer to the manual supplied with the DVD player.

If you need to make any adjustment, go to the following steps.

SURROUND
ADJUST

3. **Adjust the speaker output levels.**
   1) **Press BALANCE/SURROUND ADJUST repeatedly until one of the indications appears on the display.**
      "CENTER LEVEL":
        To adjust the center speaker level.
      "REAR L LEVEL":
        To adjust the left rear speaker level.
      "REAR R LEVEL":
        To adjust the right rear speaker level.
   2) **Turn MULTI JOG to adjust the selected speaker output level (from −10 dB to +10 dB).**
   3) **Repeat 1) and 2) to adjust the other speaker output levels.**

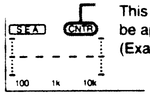


SURROUND
ADJUST

4. **Adjust the center tone.**
   1) **Press BALANCE/SURROUND ADJUST repeatedly until "CENTER TONE" appears on the display.**
      The display changes to show the current setting.
   2) **Turn MULTI JOG to select the center tone level you want.**
      The center tone adjustment affects the mid-frequency range, which the human voice is mostly made up of.
      - As you turn it, the display changes to show the following:

SOFT 2↔SOFT 1↔FLAT↔SHARP 1↔SHARP 2

Adjusted levels are also shown on the equalizer display.

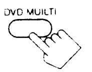


This CNTR means this adjustment can be applied to the center speaker only. (Example: When "FLAT" is selected.)

To make the dialogue clearer, select "SHARP 1" (little) or "SHARP 2" (much).
To make the dialogue softer, select "SOFT 1" (little) or "SOFT 2" (much).
When "FLAT" is selected, no adjustment is applied.

From the remote control:

1. **Press DVD MULTI so that "DVD MULTI" appears on the display.**



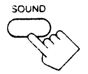
Note:

When you select "DVD MULTI" as the source to play, the DSP mode is canceled temporarily, and the SURROUND ON/OFF and SURROUND MODE buttons do not work.

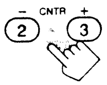
2. **Select the analog discrete output mode on the DVD player, and start playing a DVD.**
   - Refer to the manual supplied with the DVD player.

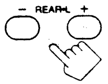
If you need to make any adjustment, go to the following steps.

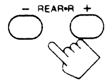
3. **Press SOUND.**
   The 10 keys are activated for adjusting the sound.



4. **Adjust the speaker output levels.**
   - To adjust the center speaker level, press CNTR –/+ (from –10 dB to +10 dB).
   - To adjust the left rear speaker level, press REAR•L –/+ (from –10 dB to +10 dB).
   - To adjust the right rear speaker level, press REAR•R –/+ (from –10 dB to +10 dB).







5. **Press CNTR TONE to select the center tone level you want.**
   - Each time you press the button, the display changes to show the following:

→SOFT 2→SOFT 1→FLAT→SHARP 1→SHARP 2┐

MEMO

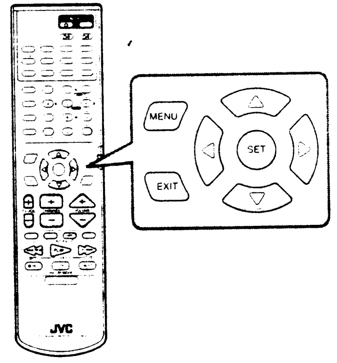
Use this column to write down your DVD MULTI playback mode adjustments for your future reference

Using the On-Screen Menus

You can use the Menus on the TV screen to control the receiver.
To use this function, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 7), and set the TV's input mode to the proper position to which the receiver is connected.

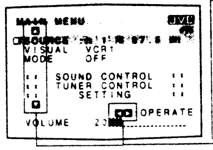
- *When the TV's input mode is incorrect; for example, a different video input or TV tuner mode is selected, you cannot show the Menus on the TV screen.*

On-Screen Operation buttons (on the remote control)


MENU
EXIT
SET
JVC

Selecting the Source to Play (Also see page 9)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.


MAIN MENU
JVC
SOURCE
VISUAL VCR1
MODE OFF
SOUND CONTROL
TUNER CONTROL
SETTING
OPERATE
VOLUME 20

Shows the buttons you can use on the current menu.
In this case, use △ / ▽ to move ☞ up and down, and ◁ / ▷ to select, adjust or set the item.

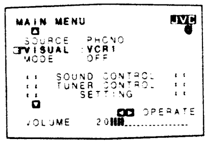
Notes:

- *If your TV is not of the PAL- or multi-color system, the TV screen will be distorted.*
- *The on-screen display will disappear if no operation is done for about 1 minute.*

2. **Press △ / ▽ to move ☞ to "SOURCE."**
3. **Press ◁ / ▷ to select the source.**
4. **When you finish, press EXIT.**
   The menu disappears from the TV.

Selecting Different Sources for Picture and Sound (Also see page 10)

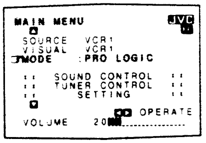
1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "VISUAL."**
3. **Press ◁ / ▷ to select a different video source.**


MAIN MENU
JVC
SOURCE PHONO
☞VISUAL VCR1
MODE OFF
SOUND CONTROL
TUNER CONTROL
SETTING
OPERATE
VOLUME 20

4. **When you finish, press EXIT.**
   The menu disappears from the TV.

Activating the DSP Modes (Also see page 30)

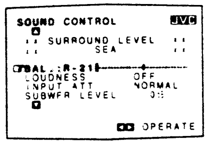
1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "MODE."**
3. **Press ◁ / ▷ to select the DSP mode you want to use.**


MAIN MENU
JVC
SOURCE VCR1
VISUAL VCR1
☞MODE :PRO LOGIC
SOUND CONTROL
TUNER CONTROL
SETTING
OPERATE
VOLUME 20

4. **When you finish, press EXIT.**
   The menu disappears from the TV.

Adjusting the Front Speaker Output Balance (Also see page 12)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears.
3. **Press △ / ▽ to move ☞ to "BAL." (Balance).**
4. **Press ◁ / ▷ to adjust the balance.**

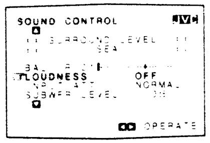

SOUND CONTROL
JVC
SURROUND LEVEL
SEA
☞BAL. :R-21
LOUDNESS OFF
INPUT ATT NORMAL
SUBWFR LEVEL 0
OPERATE

5. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

Listening at Low Volume (Loudness)

(Also see page 11)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears.
3. **Press △ / ▽ to move ☞ to "LOUDNESS."**
4. **Press ◁ / ▷ to turn the loudness "ON" or "OFF."**

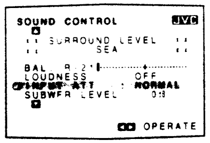

SOUND CONTROL
JVC
SURROUND LEVEL
SEA
BAL
LOUDNESS OFF
INPUT ATT NORMAL
SUBWFR LEVEL
OPERATE

5. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

Attenuating the Input Signal

(Also see page 11)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears.
3. **Press △ / ▽ to move ☞ to "INPUT ATT."**
4. **Press ◁ / ▷ to turn the Input Attenuator mode "ATT ON" or "NORMAL."**

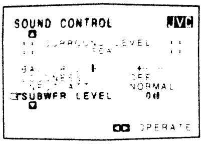

SOUND CONTROL
JVC
SURROUND LEVEL
SEA
BAL R 2
LOUDNESS OFF
INPUT ATT : NORMAL
SUBWFR LEVEL 0dB
OPERATE

5. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

Adjusting the Subwoofer Output Level

(Also see page 11)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears.
3. **Press △ / ▽ to move ☞ to "SUBWFR LEVEL."**
4. **Press ◁ / ▷ to adjust the subwoofer output level.**

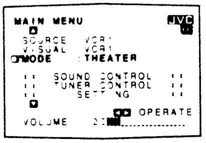

SOUND CONTROL
JVC
SURROUND LEVEL
SEA
BAL
LOUDNESS OFF
INPUT ATT NORMAL
SUBWFR LEVEL 0dB
OPERATE

5. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

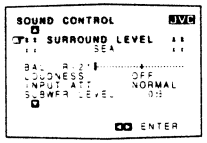
Adjusting the DSP Modes

(Also see pages 26 – 30)

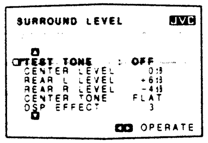
1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "MODE."**
3. **Press ◁ / ▷ to select the DSP mode you want to adjust.**
   - In this example, "THEATER" is selected.


MAIN MENU
JVC
SOURCE VCR1
VISUAL VCR1
MODE : THEATER
SOUND CONTROL
TUNER CONTROL
SETTING
OPERATE
VOLUME 20

4. **Press △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears.


SOUND CONTROL
JVC
SURROUND LEVEL
SEA
BAL R 2
LOUDNESS OFF
INPUT ATT NORMAL
SUBWFR LEVEL 0dB
ENTER

5. **Press △ / ▽ to move ☞ to "SURROUND LEVEL," then press ◁ / ▷.**
   The SURROUND LEVEL menu appears.


SURROUND LEVEL
JVC
TEST TONE : OFF
CENTER LEVEL 0dB
REAR L LEVEL +6dB
REAR R LEVEL -4dB
CENTER TONE FLAT
DSP EFFECT 3
OPERATE

6. **Press △ / ▽ to move ☞ to the item you want to set or adjust, then press ◁ / ▷.**
   On these adjustment menus, you can do the following:

For 3D-PHONIC (3D ACTION, 3D DIGITAL, 3D THEATER):
"DSP EFFECT": Select the effect level.

For DAP (LIVE CLUB, DANCE CLUB, HALL, PAVILION):
"REAR L LEVEL": Adjust the left rear speaker output level. *
"REAR R LEVEL": Adjust the right rear speaker output level. *
"DSP EFFECT": Select the effect level.

For Dolby Pro Logic:
"TEST TONE": Output a test tone.
"CENTER LEVEL": Adjust the center speaker output level. **
"REAR L LEVEL": Adjust the left rear speaker output level. *
"REAR R LEVEL": Adjust the right rear speaker output level. *
"CENTER TONE": Select the center tone level. **

For Dolby Digital, DTS Digital Surround, and MPEG Multichannel:
"TEST TONE": Output a test tone.
"CENTER LEVEL": Adjust the center speaker output level. **
"REAR L LEVEL": Adjust the left rear speaker output level. *
"REAR R LEVEL": Adjust the right rear speaker output level. *
"CENTER TONE": Select the center tone level. **

For JVC Theater Surround:
"TEST TONE": Output a test tone.
"CENTER LEVEL": Adjust the center speaker output level. **
"REAR L LEVEL": Adjust the left rear speaker output level. *
"REAR R LEVEL": Adjust the right rear speaker output level. *
"CENTER TONE": Select the center tone level. **
"DSP EFFECT": Select the effect level.

Notes:

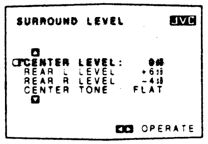
- * *Not displayed when "REAR SPK" is set to "NONE" (see page 14).*
- ***Not displayed when "CENTER SPK" is set to "NONE" (see page 14).*

7. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

Activating the DVD MULTI Playback Mode

(Also see page 32)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "SOURCE."**
3. **Press ◁ / ▷ to select "DVD MULTI."**
4. **Press △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears.
5. **Press △ / ▽ to move ☞ to "SURROUND LEVEL," then press ◁ / ▷.**
   The SURROUND LEVEL menu appears.


SURROUND LEVEL
JVC
CENTER LEVEL: 0dB
REAR L LEVEL +6dB
REAR R LEVEL -4dB
CENTER TONE FLAT
OPERATE

6. **Press △ / ▽ to move ☞ to the item you want to set or adjust, then press ◁ / ▷.**
   On this adjustment menu, you can do the following:

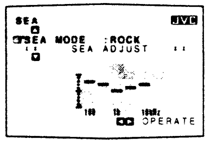
"CENTER LEVEL": Adjust the center speaker output level.
"REAR L LEVEL": Adjust the left rear speaker output level.
"REAR R LEVEL": Adjust the right rear speaker output level.
"CENTER TONE": Select the center tone level.

7. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

Selecting Your Favorite SEA Mode

(Also see page 22)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears.
3. **Press △ / ▽ to move ☞ to "SEA," then press ◁ / ▷.**
   The SEA menu appears.
4. **Press △ / ▽ to move ☞ to "SEA MODE."**


SEA
JVC
SEA MODE : ROCK
SEA ADJUST
OPERATE

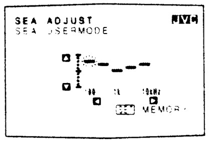
5. **Press ◁ / ▷ to select the SEA mode you want.**
6. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

Creating Your Own SEA Mode

(Also see page 22)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "SOUND CONTROL," then press ◁ / ▷.**
   The SOUND CONTROL menu appears.
3. **Press △ / ▽ to move ☞ to "SEA," then press ◁ / ▷.**
   The SEA menu appears.

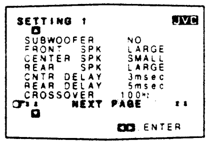
4. **Press △ / ▽ to move ☞ to "SEA ADJUST."**
   The SEA ADJUST menu appears.


SEA ADJUST
SEA USERMODE
JVC
SET MEMORY

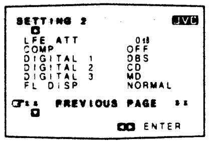
5. **Press △ / ▽ / ◁ / ▷ to adjust the SEA mode as you want.**
   ◁ / ▷ : Select the frequency ranges.
   △ / ▽ : Adjust the frequency levels.
6. **Press SET to store the setting into the SEA USERMODE.**
   - If you press EXIT, without pressing SET in this step, you can return to the SEA menu. (The adjustment you have made is active but not stored.)
7. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

■ Setting the Basic Setting Items (Also see pages 12 – 15)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "SETTING," then press ◁ / ▷.**
   The SETTING 1 or SETTING 2 menu appears.


SETTING 1
JVC
SUBWOOFER NO
FRONT SPK LARGE
CENTER SPK SMALL
REAR SPK LARGE
CNTR DELAY 3msec
REAR DELAY 5msec
CROSSOVER 100Hz
NEXT PAGE
ENTER

3. **Press △ / ▽ to move ☞ to the item you want to set or adjust, then press ◁ / ▷.**
   - To go to the SETTING 2 menu, move ☞ to "NEXT PAGE," then press ◁ / ▷.
   - To go back to the SETTING 1 menu, move ☞ to "PREVIOUS PAGE," then press ◁ / ▷.


SETTING 2
JVC
LFE ATT 0dB
COMP OFF
DIGITAL 1 DBS
DIGITAL 2 CD
DIGITAL 3 MD
FL DISP NORMAL
PREVIOUS PAGE
ENTER

On the SETTING 1 and 2 menus, you can do the following:

"SUBWOOFER":	Set the subwoofer information (see page 12).
"FRONT SPK":	Set the front speaker information (see page 14).
"CENTER SPK":	Set the center speaker information (see page 14).
"REAR SPK":	Set the rear speaker information (see page 14).
"CNTR DELAY":	Adjust the delay time of the center speaker output (see page 14). *
"REAR DELAY":	Adjust the delay time of the rear speaker output (see page 14). **
"CROSSOVER":	Set the crossover frequency (see page 15).
"LFE ATT":	Set the low frequency effect attenuator level (see page 15).
"COMP":	Set the dynamic range compression (see page 15).
"DIGITAL 1/2/3":	Set the digital input terminal (see page 13).
"FL DISP":	Shows the disc text information on the display (see page 13).

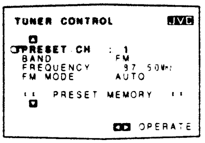
Notes:

- * *Not adjustable when "CENTER SPK" is set to "NONE" (see page 14).*
- ** *Not adjustable when "REAR SPK" is set to "NONE" (see page 14).*

4. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

■ Operating the Tuner (Also see pages 17 and 18)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "TUNER CONTROL," then press ◁ / ▷.**
   The TUNER CONTROL menu appears.


TUNER CONTROL
JVC
PRESET CH : 1
BAND FM
FREQUENCY 87.50MHz
FM MODE AUTO
PRESET MEMORY
OPERATE

3. **Press △ / ▽ to move ☞ to the item you want to set or adjust, then press ◁ / ▷.**
   On the TUNER CONTROL menu, you can do the following:

"PRESET CH":	Select a preset channel station.
"BAND":	Select the band.
"FREQUENCY":	Tune in a station manually.
"FM MODE":	Select the FM reception mode.*
"PRESET MEMORY":	See "Storing the Preset Stations" on the next page.

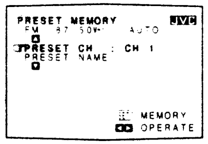
Note:

- * *Not displayed when an AM (MW/LW) station is selected.*

4. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

■ Storing the Preset Stations (Also see page 17)

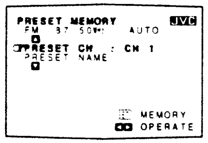
1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "TUNER CONTROL," then press ◁ / ▷.**
   The TUNER CONTROL menu appears.
3. **Tune into a station on the TUNER CONTROL menu, referring to "Operating the Tuner" on the previous page.**
4. **Press △ / ▽ to move ☞ to "PRESET MEMORY," then press ◁ / ▷.**
   The PRESET MEMORY menu appears.


PRESET MEMORY
JVC
FM 87.50MHz AUTO
PRESET CH : CH 1
PRESET NAME
SET MEMORY
OPERATE

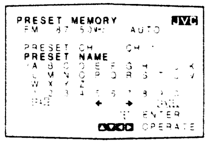
5. **Press ◁ / ▷ to select a preset station number you want.**
6. **Press SET to store the setting.**
7. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

■ Assigning Names to Preset Stations (Also see page 18)

1. **Press MENU.**
   The MAIN MENU appears on the TV.
   - Pressing one of the △ / ▽ / ◁ / ▷ buttons also displays the MAIN MENU.
2. **Press △ / ▽ to move ☞ to "TUNER CONTROL," then press ◁ / ▷.**
   The TUNER CONTROL menu appears.
3. **Press △ / ▽ to move ☞ to "PRESET CH."**
4. **Press ◁ / ▷ to select a preset station.**
5. **Press △ / ▽ to move ☞ to "PRESET MEMORY," then press ◁ / ▷.**
   The PRESET MEMORY menu appears.


PRESET MEMORY
JVC
FM 87.50MHz AUTO
PRESET CH : CH 1
PRESET NAME
SET MEMORY
OPERATE

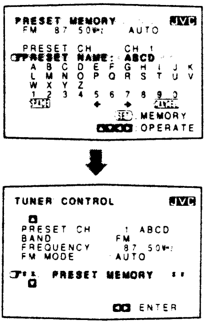
6. **Press △ / ▽ to move ☞ to "PRESET NAME," then press SET.**
   The character entry screen appears.


PRESET MEMORY
JVC
FM 87.50MHz AUTO
PRESET CH CH 1
PRESET NAME
A B C D E F G H I J K
L M N O P Q R S T U V
W X Y Z
1 2 3 4 5 6 7 8 9 0
SPACE
CANCEL
SET ENTER
OPERATE

7. **Press △ / ▽ / ◁ / ▷ to move ☞ in front of a character you want.**
   You can also select the following:

SPACE :	To enter space
CANCEL :	To erase the character
← → :	To go back to the previous character position or go to the next character position

8. **Press SET to enter the selected character.**
9. **Repeat steps 7 and 8 to enter up to four characters.**
10. **Press △ / ▽ / ◁ / ▷ to move ☞ to "PRESET NAME," then press SET to store the setting.**
    The TUNER CONTROL menu appears again.


PRESET MEMORY
JVC
FM 87.50MHz AUTO
PRESET CH CH 1
PRESET NAME : ABCD
A B C D E F G H I J K
L M N O P Q R S T U V
W X Y Z
1 2 3 4 5 6 7 8 9 0
SPACE
CANCEL
SET MEMORY
OPERATE
TUNER CONTROL
JVC
PRESET CH 1 ABCD
BAND FM
FREQUENCY 87.50MHz
FM MODE AUTO
PRESET MEMORY
ENTER

11. **When you finish, press EXIT repeatedly until the menu disappears from the TV.**

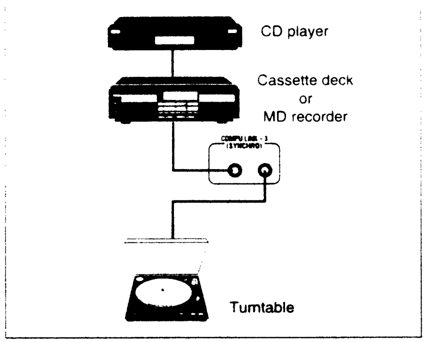
You can show the RDS information on the TV screen.
For details, see page 19.

COMPU LINK Remote Control System

The COMPU LINK remote control system allows you to operate JVC audio components through the remote sensor on the receiver.

To use this remote control system, you need to connect JVC audio components through the COMPU LINK-3 (SYNCHRO) jacks (see below) in addition to the connections using cables with RCA pin plugs (see pages 5 and 6).

- Make sure that the AC power cords of these components are unplugged before connection. Plug the AC power cords only after all connections are complete.



Notes:

- *If your audio component has two COMPU LINK-3 (SYNCHRO) jacks, you can use either one. If it has only one COMPU LINK-3 (SYNCHRO) jack, connect it so that it is the last item in the series of components. (For example, the turntable or CD player in the diagram above.)*
- *To operate the cassette deck or MD recorder using the COMPU LINK remote control system, set the source name correctly. (See page 12.)*
- *Refer also to the manuals supplied with your audio components.*

This remote control system allows you to use four functions listed below.

Remote Control through the Remote Sensor on the Receiver

You can control the connected audio components through the remote sensor on the receiver using this remote control. Aim the remote control directly at the remote sensor on the receiver. For details, see pages 45 and 46.

Automatic Source Selection

When you press the play (►) button on a connected component or on its own remote control, the receiver automatically turns on and changes the source to the component. On the other hand, if you select a new source on the receiver or on the remote control, the selected component begins playing immediately.
In both cases, the previously selected source continues playing without sound for a few seconds.

Automatic Power On/Off (Standby): only possible with the COMPU LINK-3 connection

Both the CD player and cassette deck (or MD recorder) turn on and off (standby) along with the receiver.
When you turn on the receiver, the CD player or cassette deck (or MD recorder) will turn on automatically, depending on which component has been previously selected.
When you turn off the receiver, both the CD player and cassette deck (or MD recorder) will turn off (standby).

Synchronized Recording

Synchronized recording means the cassette deck (or MD recorder) starts recording as soon as a CD or a record begins playing.

To use synchronized recording, follow these steps:

1. **Put a tape in the cassette deck (or an MD in the MD recorder), and a disc in the CD player (or a record on the turntable).**
2. **Press the record (●) button and the pause (II) button on the cassette deck (or MD recorder) at the same time.**
   This puts the cassette deck (or MD recorder) into recording pause.
   If you do not press the record (●) button and pause (II) button at the same time, the synchronized recording feature will not operate.
3. **Press the play (►) button on the CD player or on the turntable.**
   The source changes on the receiver, and as soon as play starts, the cassette deck (or MD recorder) starts recording. When the play ends, the cassette deck (or MD recorder) enters recording pause, and stops about 4 seconds later.

Notes:

- *During synchronized recording, the selected source cannot be changed.*
- *If the power of any component is shut off during synchronized recording, the COMPU LINK remote control system may not operate properly. In this case, you must start again from the beginning.*

TEXT COMPU LINK Remote Control System

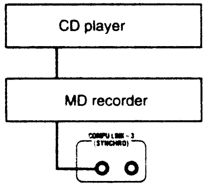
The TEXT COMPU LINK remote control system has been newly developed to deal with the disc information recorded in the CD Text and MDs. Using these information in the discs, you can operate the CD player or MD recorder equipped with the TEXT COMPU LINK remote control system through the receiver.*

CONNECTIONS:

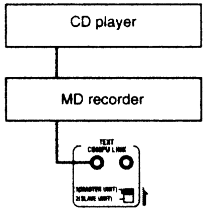
To use this remote control system, you need to connect the CD player and/or MD recorder you want to operate, following the procedures below.

1. **If you have already plugged your CD player, MD recorder, and this receiver into the AC outlets, unplug their AC power cords first.**
2. **Connect your CD player, MD recorder, and this receiver as follows, through the COMPU LINK-3 (SYNCHRO) jacks and TEXT COMPU LINK jacks.**

   1) **COMPU LINK-3 (SYNCHRO) jacks:** Use the cables with the monaural mini-plugs (not supplied with this receiver).



   2) **TEXT COMPU LINK jacks:** Use the cables with the stereo mini-plugs (not supplied with this receiver).



IMPORTANT:

Set the Master/Slave Selector on the rear to "1(MASTER UNIT)."
- "2(SLAVE UNIT)" is just for the serviceman's use. The TEXT COMPU LINK remote control system does not function with the selector set to "2(SLAVE UNIT)."

3. **Connect your CD player, MD recorder and this receiver, using the cables with RCA pin plugs (see page 6).**
4. **Plug the AC power cords of these components above into the AC outlets.**
5. **When turning on these components for the first time, turn on the connected components first, then turn on this receiver.**

FUNCTIONS:

This remote control system allows you to use the functions listed below.

Displaying the Disc Information on the TV screen

Disc information such as its performer and disc title (and track titles only when a CD Text is selected) is shown on the TV screen.

Disc Search: Only for CD Player

This remote control system can allow you to search discs by the performer, disc title, and music genre.
With this disc search, you can easily find the disc you want to play.

Disc Title Input

If your CD player or MD recorder has the disc memory function, you can input the following information about the normal audio CDs or MDs on the TV screen.
- For CDs: Performer, disc title, and music genre
- For MDs: Disc title and song titles

****What is a CD Text?***

In a CD Text, some information about the disc (its disc title, performer, composer, arranger, etc.) is recorded.

Notes:

- *If your audio component has two COMPU LINK-3 (SYNCHRO) jacks, you can use either one. If it has only one COMPU LINK-3 (SYNCHRO) jack, connect it so that it is the last item in the series of components. (For example, the CD player in the diagram to the left.)*
- *If your audio component has two TEXT COMPU LINK jacks, you can use either one. If it has only one TEXT COMPU LINK jack, connect it so that it is the last item in the series of components. (For example, the CD player in the diagram to the left.)*
- *"TEXT COMPULINK SOURCE NOT CONNECTED" appears on the display in the following cases:*
  - *When the connections explained to the left are not correctly done.*
  - *When you try to use the TEXT COMPU LINK function a few seconds after you turn on the connected equipment. This is not a malfunction of the units.*
- *Refer also to the manuals supplied with your CD player or MD recorder.*

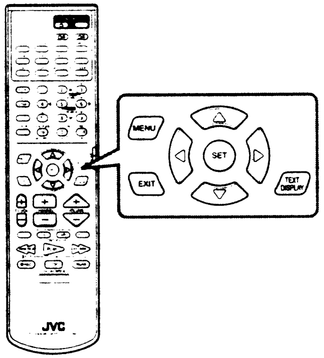
IMPORTANT:

If you turn on the receiver before turning on the other components after connecting the components, the TEXT COMPU LINK remote control system does not work correctly.
If this happens:
1. Turn off all the components including this receiver.
2. Turn on the connected components.
3. Turn on this receiver.

OPERATIONS

To use this remote control system, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 7), and set the TV's input mode to the proper position to which the receiver is connected. **Make sure you have connected the CD player or MD recorder equipped with the TEXT COMPU LINK remote control system. If not, you cannot use the following functions.**

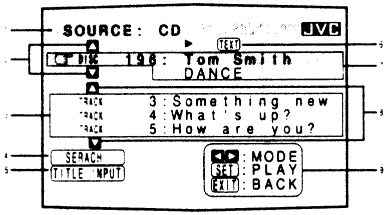
On-Screen Operation buttons (on the remote control)


MENU
SET
EXIT
TEXT DISPLAY
JVC

Showing the Disc Information on the TV Screen

Press TEXT DISPLAY while "CD" or "MD" is selected as the source.

The Disc Information screen appears on the TV.


SOURCE : CD
JVC
TEXT
DISC 198 : Tom Smith
DANCE
TRACK 3 : Something new
TRACK 4 : What's up?
TRACK 5 : How are you?
SERACH
TITLE INPUT
MODE
SET : PLAY
EXIT : BACK
1
2
3
4
5
6
7
8
9

① Source name: CD or MD

② Select ▲ or ▼, then press SET to change the disc.

③ Track numbers and track titles.
- The current playing (selected) track is indicated in yellow.
- When you move ☞ to a track number, you can change the track information by pressing ◁ / ▷. Each time you press the button, track information alternates between its track title and its performer. (You can also start playing the track by pressing SET.)

④ Select this (move ☞ in front), then press SET to go to the DISC SEARCH screen (see page 42).

⑤ Select this (move ☞ in front), then press SET to go to the TITLE INPUT screen (see page 43).

⑥ This appears only when a CD Text is selected.

⑦ Disc information such as the disc title, performer, and music genre.
When this is selected (☞ in front), you can change the disc information by pressing ◁ / ▷. Each time you press the button, disc information (see "Note on ⑦") changes.

⑧ Select ▲ or ▼, then press SET to change the track.

⑨ Usable buttons and their functions for the current selection.
Indication here will be changed according to what is currently selected (☞ in front) on the screen. See "Note on ⑨."

Note on ⑦:

The following information will appear on the display:
- *Disc title*
- *Performer*
- *Genre*
- *Song writer*
- *Composer*
- *Arranger*
- *Message*

Only recorded information will be shown. If there is no data, "NO DATA" will appear.

Note on ⑨:

For example, the SET button will be used to start play (PLAY), to go to the next screen (ENTER), and to determine the selection (ENTER).

To exit from the Disc information screen:

Press EXIT.

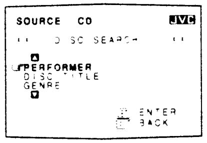
Notes:
- *The on-screen display will disappear in the following case:*
  - *if no operation is done for about 10 minutes.*
  - *if you do any operation other than explained in this section.*
- *To control the MD recorder using the TEXT COMPU LINK remote control system, you have to change the source name shown on the display from "TAPE" to "MD." (See page 12.)*
- *Some special characters and marks cannot be displayed correctly.*

Searching for a Disc (Only for the CD player)

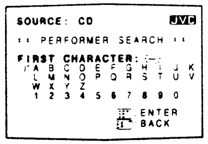
Search for a disc by its performer:

1. **Press TEXT DISPLAY while "CD" is selected as the source.**
The Disc Information screen appears on the TV.

2. **Press △ / ▽ to move ☞ to "SEARCH," then press SET.**
The DISC SEARCH screen appears.


SOURCE CD
JVC
DISC SEARCH
PERFORMER
DISC TITLE
GENRE
ENTER
BACK

3. **Press △ / ▽ to move ☞ to "PERFORMER", then press SET.**
The PERFORMER SEARCH screen appears.

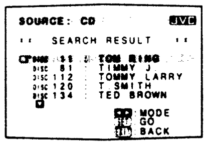

SOURCE : CD
JVC
PERFORMER SEARCH
FIRST CHARACTER :
A B C D E F G H I J K
L M N O P Q R S T U V
W X Y Z
1 2 3 4 5 6 7 8 9 0
ENTER
BACK

4. **Press △ / ▽ / ◁ / ▷ to move ☞ in front of the first character of the performer you want to search, then press SET.**
To correct the incorrect entry, press △ / ▽ / ◁ / ▷ to move ☞ in front of the correct character, then press SET.

Note:

Symbols such as @, # or $ cannot be available for search.

5. **Press SET again.**
Disc search starts, then the SEARCH RESULT screen, showing the performers, appears.

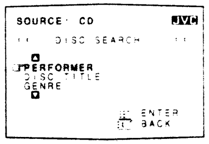

SOURCE : CD
JVC
SEARCH RESULT
DISC 11 : TOM KING
DISC 81 : TIMMY J
DISC 112 : TOMMY LARRY
DISC 120 : T SMITH
DISC 134 : TED BROWN
MODE
GO
BACK

6. **On the SEARCH RESULT screen, you can do the following:**
- **Changing the indication of the disc information:** Press △ / ▽ to move ☞ to a searched disc, then press ◁ / ▷. Each time you press ◁ / ▷, the disc information alternates between its performer and its disc title.
- **Starting a disc play and going to the Disc Information screen (see page 41):** Press △ / ▽ to move ☞ to a searched disc, then press SET.
- **Showing unseen disc information (if more than 5 discs are listed as a result of the search):** Press △ / ▽ until they appear.
- **Going back to the PERFORMER SEARCH screen:** Press EXIT.

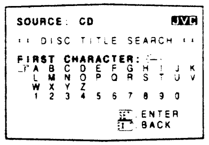
Search for a disc by its disc title:

1. **Press TEXT DISPLAY while "CD" is selected as the source.**
The Disc Information screen appears on the TV.

2. **Press △ / ▽ to move ☞ to "SEARCH," then press SET.**
The DISC SEARCH screen appears.


SOURCE CD
JVC
DISC SEARCH
PERFORMER
DISC TITLE
GENRE
ENTER
BACK

3. **Press △ / ▽ to move ☞ to "DISC TITLE, then press SET.**
The DISC TITLE SEARCH screen appears.

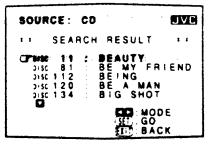

SOURCE : CD
JVC
DISC TITLE SEARCH
FIRST CHARACTER :
A B C D E F G H I J K
L M N O P Q R S T U V
W X Y Z
1 2 3 4 5 6 7 8 9 0
ENTER
BACK

4. **Press △ / ▽ / ◁ / ▷ to move ☞ in front of the first character of the disc title you want to search, then press SET.**
To correct the incorrect entry, press △ / ▽ / ◁ / ▷ to move ☞ in front of the correct character, then press SET.

Note:

Symbols such as @, # or $ cannot be available for search.

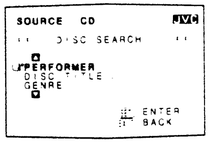
5. **Press SET again.**
Disc search starts, then the SEARCH RESULT screen, showing the disc titles, appears.


SOURCE : CD
JVC
SEARCH RESULT
DISC 11 : BEAUTY
DISC 81 : BE MY FRIEND
DISC 112 : BEING
DISC 120 : BE A MAN
DISC 134 : BIG SHOT
MODE
SET : GO
EXIT : BACK

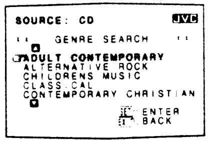
6. **On the SEARCH RESULT screen, you can do the following:**
- **Changing the indication of the disc information:** Press △ / ▽ to move ☞ to a searched disc, then press ◁ / ▷. Each time you press ◁ / ▷, the disc information alternates between its disc title and its performer.
- **Starting a disc play and going to the Disc Information screen (see page 41):** Press △ / ▽ to move ☞ to a searched disc, then press SET.
- **Showing unseen disc information (if more than 5 discs are listed as a result of the search):** Press △ / ▽ until they appear.
- **Going back to the DISC TITLE SEARCH screen:** Press EXIT.

Search for a disc by its genre:

1. **Press TEXT DISPLAY while "CD" is selected as the source.**
   The Disc Information screen appears on the TV.


SOURCE CD
JVC
DISC SEARCH
PERFORMER
DISC TITLE
GENRE
ENTER
BACK

2. **Press △ / ▽ to move ☞ to "SEARCH," then press SET.**
   The DISC SEARCH screen appears.

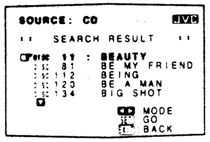

SOURCE: CD
JVC
GENRE SEARCH
ADULT CONTEMPORARY
ALTERNATIVE ROCK
CHILDRENS MUSIC
CLASSICAL
CONTEMPORARY CHRISTIAN
ENTER
BACK

3. **Press △ / ▽ to move ☞ to "GENRE", then press SET.**
   The GENRE SEARCH screen appears.

4. **Press △ / ▽ to move ☞ to the genre you want to search, then press SET.**

   To show the unseen genres, press △ / ▽ until they appear.

   Disc search starts, then the SEARCH RESULT screen, showing the disc titles, appears.


SOURCE: CD
JVC
SEARCH RESULT
DISC 11 : BEAUTY
DISC 81 BE MY FRIEND
DISC 112 BEING
DISC 120 BE A MAN
DISC 134 BIG SHOT
MODE
GO
BACK

5. **On the SEARCH RESULT screen, you can do the following:**
   - **Changing the indication of the disc information:** Press △ / ▽ to move ☞ to a searched disc, then press ◁ / ▷. Each time you press ◁ / ▷, the disc information alternates between its disc title and its performer.
   - **Starting a disc play and going to the Disc Information screen (see page 41):** Press △ / ▽ to move ☞ to a searched disc, then press SET.
   - **Showing unseen disc information (if more than 5 discs are listed as a result of the search):** Press △ / ▽ until they appear.
   - **Going back to the GENRE SEARCH screen:** Press EXIT.

Entering the Disc Information

For the CD Player with the disc memory function:

You can use the disc memory function through this receiver.
The disc information (its performer, disc title, and music genre) of normal audio CDs will be stored into the memory built in the CD player.
For the disc memory function, refer to the manual supplied with your CD player.

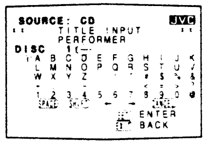
- The performer, disc title, and music genre information are usually recorded in a CD Text. However, if a CD Text has no genre information recorded in the disc itself, you can input its music genre by yourself.

Note:

You can enter the TITLE INPUT screens for a CD Text and input its titles. However, you cannot store the titles you have input for a CD Text.

Example: Entering the following information for Disc 1
Performer: "MICHAEL"
Disc title: "MY FAVORITE"

1. **Press TEXT DISPLAY while "CD" is selected as the source.**
   The Disc Information screen appears on the TV.

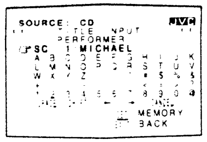

SOURCE: CD
JVC
TITLE INPUT
PERFORMER
DISC 1
SPACE
SHIFT
CANCEL
ENTER
BACK

2. **Press △ / ▽ to move ☞ to "TITLE INPUT," then press SET.**
   The TITLE INPUT: PERFORMER screen appears.

3. **Press △ / ▽ / ◁ / ▷ to move ☞ in front of a character you want, then press SET to enter the character.**
   - If the current CD is a CD Text, go to step 5 without entering the performer.

   To use the lower case letters, press △ / ▽ / ◁ / ▷ to move ☞ to SHIFT, then press SET.

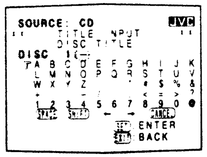
   To use the upper case letters again, press △ / ▽ / ◁ / ▷ to move ☞ to SHIFT, then press SET.


SOURCE: CD
JVC
TITLE INPUT
PERFORMER
DISC 1 MICHAEL
MEMORY
BACK

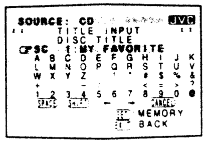
4. **Repeat step 3 until you finish putting a performer name (up to 32 characters).**

   To insert a space, press △ / ▽ / ◁ / ▷ to move ☞ to SPACE, then press SET.

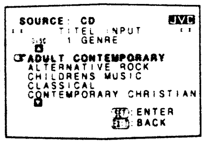
   To correct an incorrect character:
   1) Press △ / ▽ / ◁ / ▷ to move ☞ to ← or → then press SET until the incorrect character is selected.
   2) Press △ / ▽ / ◁ / ▷ to move ☞ to CANCEL, then press SET to erase the character.
   3) Press △ / ▽ / ◁ / ▷ to move ☞ in front of the correct character, then press SET to enter a correct character.


SOURCE: CD
JVC
TITLE INPUT
DISC TITLE
DISC 1
SPACE
SHIFT
CANCEL
ENTER
BACK

5. **Press △ / ▽ / ◁ / ▷ to move ☞ to "DISC 1: MICHAEL (in this example)," then press SET.**
   The TITLE INPUT: DISC TITLE screen appears.


SOURCE: CD
JVC
TITLE INPUT
DISC TITLE
DISC 1 : MY FAVORITE
SPACE
SHIFT
CANCEL
MEMORY
BACK

6. **Enter the disc title, referring to steps 3 and 4.**
   - If the current CD is a CD Text, go to the next step without entering the disc title.


SOURCE: CD
JVC
TITEL INPUT
DISC 1 GENRE
ADULT CONTEMPORARY
ALTERNATIVE ROCK
CHILDRENS MUSIC
CLASSICAL
CONTEMPORARY CHRISTIAN
ENTER
BACK

7. **Press △ / ▽ / ◁ / ▷ to move ☞ to "DISC 1: MY FAVORITE (in this example)," then press SET.**
   The TITLE INPUT: DISC 1 GENRE screen appears.

8. **Press △ / ▽ to move ☞ to the genre you want, then press SET.**
   The Disc Information screen appears again.

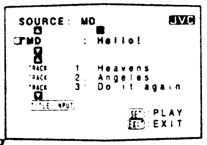
   To show the unseen genres, press △ / ▽ until they appear.

For the MD recorder:

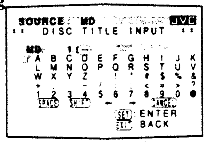
You can write the disc information (disc title and song titles) into the disc. You can only write the song title for the song currently selected.

- If you have the CD-MD combination deck, you can also enter the disc information (its performer, disc title, and its music genre) of normal audio CDs into the memory built in the CD-MD combination deck. (To do this, follow the procedure of "For the CD Player with the disc memory function" to the left.)
- If you change the disc or song title with more than 32 characters, the characters following the 32nd will be erased from the title.

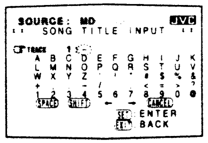
1. **Press TEXT DISPLAY while "MD" is selected as the source.**
   The Disc Information screen appears on the TV.


SOURCE: MD
JVC
MD : Hello!
TRACK 1 Heavens
TRACK 2 Angeles
TRACK 3 Do it again
TITLE INPUT
PLAY
EXIT

2. **Press △ / ▽ to move ☞ to "TITLE INPUT," then press SET.**
   The DISC TITLE INPUT screen appears.


SOURCE: MD
JVC
DISC TITLE INPUT
MD
SPACE
SHIFT
CANCEL
ENTER
BACK

3. **Enter the title, referring to steps 3 and 4 of "For the CD Player with the disc memory function" to the left.**
   - You can enter up to 32 characters for the disc title.


SOURCE: MD
JVC
SONG TITLE INPUT
TRACK 1
SPACE
SHIFT
CANCEL
ENTER
BACK

4. **Press △ / ▽ / ◁ / ▷ to move ☞ to the disc title you have just entered, then press SET.**
   The disc title is stored into the memory, and the SONG TITLE INPUT screen for the currently selected song appears.
   - You can enter a song title for the song currently selected (indicated in yellow on the TV screen).

5. **Enter the song title, referring to steps 3 and 4 of "For the CD Player with the disc memory function" to the left.**
   - You can enter up to 32 characters for the song title.

6. **Press △ / ▽ / ◁ / ▷ to move ☞ to the song title you have just entered, then press SET.**
   The song title is stored into the memory, and the Disc Information screen appears again.

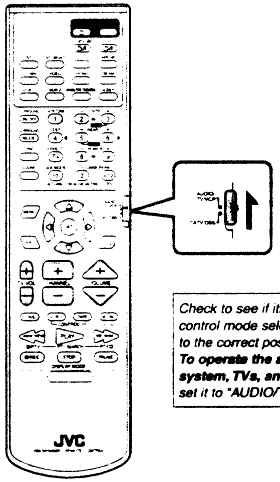
Operating JVC's Audio/Video Components

You can operate JVC's audio and video components with this receiver's remote control, since control signals for JVC components are preset in the remote control.

IMPORTANT:

To operate JVC's audio components using this remote control:

- You need to connect JVC audio components through the COMPU LINK-3 (SYNCHRO) jacks (see page 39) in addition to the connections using cables with RCA pin plugs (see pages 5 and 6).
- Aim the remote control directly at the remote sensor on the receiver.
- If you use the buttons on the front panel or the menu function to choose a source, the remote control will not operate that source. To operate a source with the remote control, the source must be selected using source selecting buttons on the remote control.
- To operate the cassette deck or MD recorder using the COMPU LINK remote control system, set the source name correctly. (See page 12.)
- Refer also to the manuals supplied with your components.



Check to see if its remote control mode selector is set to the correct position.
To operate the audio system, TVs, and VCRs, set it to "AUDIO/TV/VCR."

Tuner

After pressing FM/AM (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations:

FM/AM:	Alternates between FM and AM (MW/LW).
1 – 10, +10:	Selects a preset channel number directly. For channel number 5, press 5. For channel number 15, press +10, then 5. For channel number 20, press +10, then 10.
FM MODE/MUTING:	Changes the FM reception mode.
PTY SEARCH:	Searches for a program by PTY codes.
PTY – / +:	Selects the PTY codes.
DISPLAY MODE:	Shows the RDS signals.

Sound control section (Amplifier)

You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

SURROUND ON/OFF:	Turns on or off the Surround modes — Dolby Pro Logic, Dolby Digital, DTS Digital Surround, and MPEG Multichannel.
SURROUND MODE:	Selects the DSP modes.

After pressing SOUND (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations:

SEA MODE:	Changes the SEA modes.
SUBWOOFER – / +:	Adjusts the subwoofer output level.
CNTR – / +:	Adjusts the center speaker output level.
REAR•L – / +:	Adjusts the left rear speaker output level.
REAR•R – / +:	Adjusts the right rear speaker output level.
EFFECT:	Selects the effect level.
TEST:	Turns on or off the test tone output.
CNTR TONE:	Selects the center tone.

Note:

After adjusting sounds, press the corresponding source selecting button or DISC to operate your target source by using the 10 keys; otherwise, the 10 keys cannot be used for operating your target source.

CD player

After pressing CD (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the CD player:

PLAY:	Starts playing.
⏮:	Returns to the beginning of the current (or previous) track.
⏭:	Skips to the beginning of the next track.
STOP:	Stops playing.
PAUSE:	Pauses playing. To release it, press PLAY.
1 – 10, +10:	Selects a track number directly. For track number 5, press 5. For track number 15, press +10, then 5. For track number 20, press +10, then 10. For track number 30, press +10, +10, then 10.

CD player-changer

After pressing DISC (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a CD player-changer:

PLAY:	Starts playing.
⏮:	Returns to the beginning of the current (or previous) track.
⏭:	Skips to the beginning of the next track.
STOP:	Stops playing.
PAUSE:	Pauses playing. To release it, press PLAY.
1 – 6, 7/P:	Selects the number of a disc installed in a CD player-changer.

After pressing CD (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the CD player-changer:

1 – 10, +10:	Selects a track number directly. For track number 5, press 5. For track number 15, press +10, then 5. For track number 20, press +10, then 10. For track number 30, press +10, +10, then 10.

Turntable

After pressing PHONO (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a turntable:

PLAY:	Starts playing.
STOP:	Stops operations.

Cassette deck

After pressing TAPE/MD or TAPE CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a cassette deck:

PLAY:	Starts playing.
◀◀:	Fast winds the tape from right to left.
▶▶:	Fast winds the tape from left to right.
STOP:	Stops operations.
PAUSE:	Pauses playing. To release it, press PLAY.
● REC:	Press this button with the PLAY button to start recording. Press this button with the PAUSE button to enter recording pause.

MD recorder

After pressing TAPE/MD or TAPE CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the MD recorder:

PLAY:	Starts playing.
⏮:	Returns to the beginning of the current (or previous) track.
⏭:	Skips to the beginning of the next track.
STOP:	Stops playing.
PAUSE:	Pauses playing. To release it, press PLAY.
● REC:	Press this button with the PLAY button to start recording. Press this button with the PAUSE button to enter recording pause.

Note:

You can use either TAPE/MD button or the TAPE CONTROL button to activate the buttons listed above. If you press TAPE/MD, the playing source also changes. On the other hand, if you press TAPE CONTROL, the playing source does not change.

IMPORTANT:

To operate JVC's video components using this remote control:

- Aim the remote control directly at the remote sensor on the VCR, DVD player or TV, not on the receiver.
- Some JVC VCRs can accept two types of the control signals — remote code "A" and "B." Before using this remote control, make sure that the remote control code of the target VCR is set to code "A."

VCR

You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

VCR 1 ⏻/I:	Turns on or off the VCR.

After pressing VCR 1 or VCR 1 CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the VCR.

1 – 9, 0:	Selects the TV channels on VCR.
PLAY:	Starts playing.
◀◀:	Rewinds a tape.
▶▶:	Fast winds a tape.
STOP:	Stops operations.
PAUSE:	Pauses playing. To release it, press PLAY.
● REC:	Press this button with the PLAY button to start recording. Press this button with the PAUSE button to enter recording pause.
CHANNEL +/–:	Changes the TV channels on the VCR.

Note:

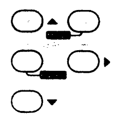
You can use either VCR 1 button or the VCR 1 CONTROL button to activate the buttons listed above. If you press VCR 1, the playing source also changes. On the other hand, if you press VCR 1 CONTROL, the playing source does not change.

DVD player

After pressing DVD or DVD MULTI (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a DVD player:

PLAY:	Starts playing.
⏮:	Returns to the beginning of the current (or previous) track.
⏭:	Skips to the beginning of the next track.
STOP:	Stops playing.
PAUSE:	Stops playing temporarily. To release it, press PLAY.

After pressing DVD or DVD MULTI, these buttons can be used for the DVD menu operations.



Note:

For detailed menu operations, refer to the instructions supplied with the discs or the DVD player.

TV

You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

TV/CATV/DBS ⏻/I:	Turns on or off the TV.
TV VOL +/–:	Adjusts the volume.
TV/VIDEO:	Sets the input mode (either TV or VIDEO).

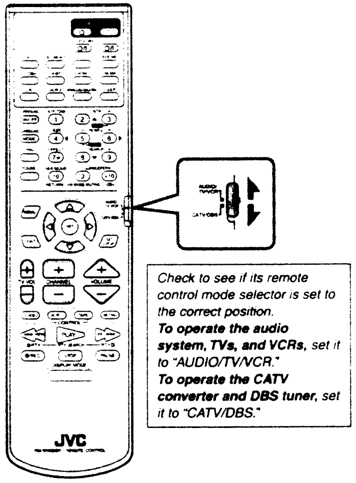
After pressing TV/DBS (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a TV:

CHANNEL +/–:	Changes the channels.
1 – 9, 0, 100+:	Selects the channels.
RETURN:	Alternates between the previously selected channel and the current channel.

Operating Other Manufacturers' Video Equipment

This remote control supplied with the receiver can transmit control signals for other manufacturers' VCRs, TVs, CATV converters and DBS tuners. By changing the transmittable signals from preset ones to the other manufacturers', you can operate the other manufacturer's components using this remote control

When operating the other manufacturers' components, refer also to the manuals supplied with them. To operate these components with the remote control, first you need to set the manufacturer's code each for VCR, TV, CATV converters, and DBS tuner.



Check to see if its remote control mode selector is set to the correct position.
To operate the audio system, TVs, and VCRs, *set it to "AUDIO/TV/VCR."*
To operate the CATV converter and DBS tuner, *set it to "CATV/DBS."*

To change the transmittable signals for operating another manufacturer's TV

1. **Set the remote control mode to "AUDIO/TV/VCR."**
2. **Press and hold TV/CATV/DBS ⏻/I.**
3. **Press TV/DBS.**
4. **Enter manufacturer's code (three digits) using buttons 1 – 9, and 0.**
   See the list on pages 49 to 51 to find the code.

   Examples: For a JVC product, press 0, 3, then 6.
   For a Hitachi product, press 0, 3, then 2.
5. **Release TV/CATV/DBS ⏻/I.**
   The following buttons can be used for operating the TV (with the remote control mode selector set to "AUDIO/TV/VCR"):

TV/CATV/DBS ⏻/I:	Turns on and off the TV.
TV VOL +/–:	Adjusts the volume.
TV/VIDEO:	Sets the input mode (either TV or VIDEO).

After pressing TV/DBS (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a TV:

CHANNEL +/–:	Changes the channels.
1 – 10, 0, 100+ (+10):	Selects the channels. 100+ (+10) button will function as the ENTER button if your TV requires pressing ENTER after selecting a channel number.

Note:

Refer to the manual supplied with your TV.

6. **Try to operate your TV by pressing TV/CATV/DBS ⏻/I.**
   When your TV turns on or off, you have entered the correct code.
   If there are more than one code listed for your brand of TV, try each one until the correct one is entered.

To change the transmittable signals for operating a CATV converter or DBS tuner

1. **Set the remote control mode to "CATV/DBS."**
2. **Press and hold TV/CATV/DBS ⏻/I.**
3. **Press TV/DBS.**
4. **Enter manufacturer's code (three digits) using buttons 1 – 9, and 0.**
   See the list on pages 51 and 52 to find the code.

   Examples: For a JVC product, press 5, 1, then 5.
   For a Philips product, press 2, 0, then 0.
5. **Release TV/CATV/DBS ⏻/I.**
   After setting the remote control mode selector to "CATV/DBS," you can perform the following operations on the CATV convertor or on the DBS tuner:

TV/CATV/DBS ⏻/I:	Turns on and off the CATV converter or DBS tuner.
CHANNEL +/–:	Changes the channels.
1 – 10, 0, 100+ (+10):	Selects the channel. 100+ (+10) button will function as the ENTER button if your equipment requires pressing ENTER after selecting a channel number.

Note:

Refer to the manual supplied with your CATV converter or DBS tuner.

6. **Try to operate your CATV converter or DBS tuner by pressing TV/CATV/DBS ⏻/I.**
   When your CATV converter or DBS tuner turns on or off, you have entered the correct code.
   If there are more than one code listed for your brand of CATV converter or DBS tuner, try each one until the correct one is entered.

To change the transmittable signals for operating another manufacturer's VCR

1. **Set the remote control mode to "AUDIO/TV/VCR."**
2. **Press and hold VCR 1 ⏻/I.**
3. **Press VCR 1.**
4. **Enter manufacturer's code (three digits) using buttons 1–9, and 0.**
   See the list on pages 52 and 53 to find the code.

   Examples: For a JVC product, press 0, 0, then 8.
   For a Funai product, press 0, 0, then 0.
5. **Release VCR 1 ⏻/I.**
   Following button can be used for operating the VCR (with the remote control mode selector set to "AUDIO/TV/VCR"):

VCR 1 ⏻/I:	Turns on and off the VCR.

After pressing VCR 1 or VCR 1 CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the VCR:

CHANNEL +/–:	Changes the TV channels on the VCR.
1 – 10, 0, 100+ (+10):	Selects the TV channels. 100+ (+10) button will function as the ENTER button if your VCR requires pressing ENTER after selecting a channel number.
PLAY:	Starts playback.
◀◀:	Rewinds a video tape.
▶▶:	Fast winds a video tape.
STOP:	Stops operation.
PAUSE:	Pauses.
● REC:	Starts recording or enters recording pause.

Notes:

- ***Refer to the manual supplied with your VCR.***
- ***You can use either VCR 1 button or the VCR 1 CONTROL button to activate the buttons listed above. If you press VCR 1, the playing source also changes. On the other hand, if you press VCR 1 CONTROL, the playing source does not change.***

6. **Try to operate your VCR by pressing VCR 1 ⏻/I.**
   When your VCR turns on or off, you have entered the correct code.
   If there are more than one code listed for your brand of VCR, try each one until the correct one is entered.

Manufacturers' codes for TV

Acura	009
Admiral	087, 163, 213
Adyson	032, 217
AGB	516
Akai	208, 361, 516
Akura	218, 264, 369
Alba	009, 036, 037, 211, 218, 235, 371
Allorgan	294
Amplivision	217, 400
Amstrad	009, 037, 171, 177, 354, 362, 369, 371, 412, 433, 516
Anitech	009, 068, 076
Arcam	216, 217
ASA	087
Asberg	076
Asuka	218
Atlantic	206
Audiosonic	037, 109
Autovox	076, 087, 206, 336
Baird	343, 557
Bang & Olufsen	087
Barco	380
Basic Line	009, 218
Baur	010, 037, 349, 361, 505, 512, 535, 554
Beko	370, 486
Beon	037
Binatone	217
Blaupunkt	191, 195, 200, 213, 327, 328, 535, 554
Blue Sky	218
Blue Star	282
Bondstec	247
Boots	217
BPL	282
Brandt	109, 196, 198, 205, 333, 335
Brionvega	087, 362
Britannia	216
Bruns	087
BSR	294
BTC	218
Bush	009, 036, 037, 211, 218, 282, 294, 349, 355, 371, 374, 519
Carrefour	036
Cascade	009
Cathay	037
Centurion	037
Century	087, 213
CGE	074, 076, 084, 247, 306
Cimline	009
Clarivox	037
Clatronic	076, 247, 370
Clayton	385
Condor	320, 370
Contec	009, 036, 216
Continental Edison	196, 198, 205, 333, 399
Crosley	074, 076, 084, 087, 213
Crown	009, 037, 076, 370, 418, 579
Crystal	431
CS Electrinics	216
CTC	247
Cybertron	218
Daewoo	009, 037, 374, 499
Dainichi	215, 218
Dansai	037
Dayton	009
De Graaf	208, 227, 548
Decca	037, 072, 249, 516
Dixi	009, 037
Dual	336, 352, 519
Dual Tec	217
Dumont	070, 087
Elbe	259
Elin	037, 548
Elite	218, 320
Elta	009
Emerson	087, 213, 361
Erres	012, 037
Europhon	516
Expert	206
Ferguson	005, 037, 073, 109, 190, 238, 287, 335, 343
Fidelity	216, 361, 372
Finlandia	208, 346, 359
Finlux	037, 070, 072, 087, 105, 179, 346, 411, 516
Firstline	009, 216, 217, 247, 294, 321
Fisher	208, 217, 303, 370
Flint	455
Formenti	037, 087, 213, 320
Frontech	163, 247, 264, 431, 448
Fujitsu	072, 206
Funai	179, 264, 294, 303
GEC	037, 043, 072, 205, 217, 516, 557
Geloso	009, 213
Genexxa	163, 218
Goldstar	037, 109, 217, 290
Goodmans	036, 037, 072, 179, 217, 235, 257, 317, 343, 371, 374, 499
Gorenje	370
GPM	218
Graetz	163, 361, 557
Granada	037, 072, 146, 201, 208, 217, 339, 359, 516
Grandin	282
Grundig	070, 191, 195, 205, 487, 535, 554
Hanseatic	037, 320, 361, 556
Hantarex	516
Harwood	257
HCM	009, 282, 412
Hinari	009, 036, 037, 179, 218
Hisawa	282, 400, 455
Hitachi	032, 036, 043, 044, 105, 109, 163, 196, 198, 217, 225, 227, 306, 349, 481, 548, 557
Huanyu	216, 374
Hypson	037, 264, 282
ICE	217, 264, 371
ICeS	218
Imperial	074, 076, 084, 247, 370, 418
Indiana	037
Ingelen	163, 557
Inno Hit	072, 516
Interbuy	068
Interfunk	037, 163, 247, 361, 512, 557
Intervision	037, 068, 102, 217, 264
Isukai	218
ITS	371
ITT	163, 361, 548, 557
JVC	036, 053, 094, 190, 192, 371, 800
Kaisui	009, 216, 217, 218, 282
Kapsch	163, 206, 557
Kathrein	556
Kendo	037, 235, 362
Kingsley	216
Kneissel	259, 435
Korpel	037
Korting	087
Koyoda	009
Leyco	037, 072, 264, 294
Liesenk & Tter	037
Lloytron	032
Loewe	075, 087, 512
Luma	206
Luxor	349, 361
M Electronic	009, 037, 068, 105, 109, 163, 217, 287, 346, 374, 480
Magnadyne	087, 102, 247, 516
Magnafon	076, 102, 213, 516
Manesth	217, 235, 264, 320
Marantz	037, 556
Marelli	087
Mark	037
Matsui	009, 011, 035, 036, 037, 072, 177, 208, 211, 217, 235, 294, 354, 355, 371, 443, 487, 516, 579
McMichael	043
Mediator	012, 037
Memorex	009
Memphis	337
Metz	087, 213, 367, 535
Minerva	070, 487, 535, 554
Minoka	369, 412
Mitsubishi	036, 087, 108, 150, 201, 354, 512, 535
Mivar	216, 290, 291, 292, 516
Motion	076
MTC	349, 512
Multitech	009, 076, 102, 216
Neckermann	037, 087, 191, 213, 349, 505, 554, 556
NEI	037, 337, 431
Nesco	179
Nikkai	032, 035, 037, 072, 216, 218, 264, 337
Nobliko	076, 102
Nokia	361, 480, 548
Nordmende	109, 196, 198, 213, 287, 343
Oceanic	163, 215, 361
Onwa	433
Orion	037, 177, 235, 294, 320, 321, 355, 443, 516
Osaki	032, 072, 217, 218, 257, 264, 412
Oso	218
Osume	032, 072, 157
Otake	317
Otto Versand	010, 036, 037, 191, 213, 217, 320, 343, 349, 505, 512, 535, 554, 556
Palladilum	370, 418
Panama	217, 264
Panasonic	100, 126, 163, 213, 214, 226, 250, 340 367, 557
Pathe Cinema	213, 216, 238, 320
Pathe Marconi	196, 198, 205, 333
Pausa	009
Perdio	320
Phase	032
Philco	074, 076, 084, 087, 213, 247
Philips	012, 037, 043, 087, 323, 374, 554, 556
Phoenix	087
Phonola	012, 037, 087
Pioneer	109, 163, 287
Prandoni Prince	516
Profex	009 ,076, 361
Proline	321
Protech	009, 037, 102, 217, 247, 264, 337, 418, 431
Pye	012
Quelle	010, 011, 037, 070, 074, 084, 200, 213, 306, 327, 328, 361, 505, 512, 535, 554
Questa	036
R-Line	037
Radiola	012, 037, 323
Radiomarelli	087, 516
Rank Arena	036
RBM	070, 089
Rediffusion	201, 361
Revox	037
Rex	163, 206, 259, 264
RFT	087
Roadstar	009, 218, 264, 418
Saba	075, 087, 109, 163, 196, 198, 205, 213, 287, 335, 343, 557
Saccs	238
Saikou	257
Saisho	009, 011, 177, 211, 235, 264, 354, 431, 516
Salora	163, 349, 359, 361, 548
Sambers	076, 102, 213, 516
Samsung	009, 037, 090, 217, 264, 290, 370, 488, 556
Sandra	216
Sanyo	011, 036, 072, 146, 157, 208, 213, 339
Schaub Lorenz	361, 557
SBR	012, 037, 043
Schneider	037, 218, 247, 303, 323, 336, 352, 371, 394
SEG	036, 076, 217, 264
SEI	087, 102, 177, 213, 294
Sei-Sinudyne	010, 516
Seleco	163, 206, 259, 362, 411
Sentra	035
Sharp	036, 093
Shorai	294
Siarem	087, 102, 213, 516
Siemens	037, 157, 191, 195, 200, 213, 327, 328, 535, 554
Silver	036
Singer	087
Sinudyne	087, 102, 177, 213, 235, 294
Solavox	032, 163
Sonitron	208
Sonoko	009, 037
Sonolor	163, 208, 215
Sontec	037
Sony	010, 011, 036, 505
Soundwave	037, 418
Standard	009, 217, 218
Stern	163, 206, 259
Sunkai	294, 321, 355
Susumu	218
Sysline	037
Tandy	072, 163, 217, 218
Tashiko	036, 043, 217, 359
Tatung	037, 072, 217, 249, 516
Tec	217, 247
Technema	320
Technics	250
Technol Ace	179
Teleavia	205, 333, 343
Telefunken	005, 074, 084, 101, 109, 213, 262, 306, 335, 343, 471, 498, 625
Telemeister	320
Teletech	009
Teleton	206, 217, 349
Tensai	218, 294, 317, 320
Texet	216, 218
Thomson	109, 196, 198, 205, 287, 333, 343, 349, 399
Thorn	035, 037, 072, 074, 084, 190, 192, 343, 361, 499, 505, 512, 535, 553
Tomashi	282
Toshiba	035, 036, 070, 089, 243, 508, 553
Triumph	177, 243, 516
Uher	206, 303, 320
Ultra	192
Ultravox	102
Universum	037, 105, 264, 346, 370, 421, 492, 535

Vestel	037
Videosat	247
Videotechnic	217
Vision	320
Voxson	087, 163
Waltham	217
Watson	037, 320
Watt Radio	102
Wega	036, 087
White Westinghouse	037, 216, 320
Yoko	037, 217, 264, 431
Zanussi	206

Manufacturers' codes for DBS tuner

Akai	515
Alba	362, 421, 455, 515, 613
Aldes	288
Amstrad	080, 252, 345, 461, 501, 509, 689
Ankaro	220, 288, 369, 519
Anttron	183, 421
Armstrong	243
AST	351
Astra	108
Astro	173, 501, 520
Avalon	396
Axis	369, 530
BT	515, 668
Beko	189
Best	369
Blaupunkt	173
Boca	243, 513
Brain Wave	332
Bush	067, 522
Cambridge	344, 515
Channel Master	362
CNT	520
Commlink	288
Connexions	396
Conrad	607
Crown	243
Cyrus	200
DDC	362
DNT	200, 396
Echostar	396, 713
Emanon	421
Ferguson	067, 183, 189, 336
Fidelity	252
Finlux	108, 344, 397, 455
Freecom	421
Fuba	369, 396, 421
G-Sat	183
Galaxis	288
Gooding	571
Goodmans	189
Grundig	173, 189, 328, 571, 750
Hinari	183
Hirschmann	173, 397, 501, 502, 573
Hitachi	455
Houston	668
Huth	220, 243, 288, 346
IRTE	609
Intervision	592
ITT	108
Johansson	332
JVC	515, 571
Kathrein	092, 173, 200, 442, 504, 622, 658
Kreiselmeyer	173
Kyostar	421
La Sat	513, 520, 607
Lenco	421
Lennox	592
Lupus	369
Luxor	108, 573
Manhattan	455, 520, 592
Marantz	200
Maspro	092, 328, 336, 750
Matsui	344, 571
Mediamarkt	243
Minerva	571
Mintec	578
Morgan's	243, 513
Navex	332
Neuhaus	501
Newhaus	220
Nikko	360, 713
Nokia	108, 328, 397, 455, 573
Nordmende	362
Orbitech	501
Orion	522
Oxford	344
Pace	067, 183, 328, 336, 455, 795
Palladium	571
Palsat	501
Panda	455
Philips	200, 292, 328, 455, 571, 750
Phonotrend	288, 592
Promax	455
Prosat	288
Quadral	362, 519, 628
Radiola	200
Radix	396
RFT	200, 220, 288
Saba	336, 520
Sabre	455
Salora	108
SAT	351, 461
Satcom	346, 605
Satec	183, 328
Satmaster	346
SatPartner	332, 421, 502, 520
Schwaiger	183, 504
Seemann	396, 530, 578, 626
SEG	369, 421
Siemens	173
Skymaster	288, 519, 605, 628
SM Electronic	713
Sony	704
Sunstar	513
Tantec	336, 455
TechniSat	501
Techniland	346
Telefunken	421
Teleka	243, 613
Telesat	605
Thomson	455
Tonna	346, 668
Triad	351
Triasat	501
Unitor	332
Universum	173, 571
Ventana	200
Vortec	421
Vtech	351
Winersat	332
Wisi	173, 351, 396, 455
Zehnder	520

Manufacturers' codes for CATV converters

Brigminghan Cable Communications	276
British Telecom	003, 105
Decsat	423
Filmnet	443
France Telecom	451
Jerrold	003, 276
MNet	443
PVP Stereo Visual Matrix	003
Salora	382
Scientific Atlanta	008, 277
Tele+1	443
United Cable	003
Westminster	105
Zenith	000

Manufacturers' codes for VCR

Aiwa	000, 307, 348, 352
Akai	041, 049, 053, 106, 281, 288, 315
Akiba	072
Akura	271
Alba	020, 072, 209, 278, 295, 315, 333, 334, 352
Ambassador	020
Amstrad	000, 278, 325, 332
Anitech	072
ASA	037, 081
Asuka	037
Baird	000, 041, 104, 107
Basic Line	020, 072, 278
Blaupunkt	003, 006, 016, 034, 154, 162, 195, 226, 227, 403
Brandt	187, 320, 321
Brandt Electronic	041
Brionvega	344
Bush	072, 209, 278, 333, 334, 352
Catron	020
CGE	000
Cimline	072
Clatronic	020
Combitech	352
Condor	020
Crown	020, 072, 278
Cyrus	081
Daewoo	020, 278
Dansai	072
De Graaf	042, 166
Decca	000, 081
Denon	042
Dual	041
Dumont	000, 081, 104, 105
Elbe	038
Elcatech	072
ESC	240, 278
Ferguson	041, 084, 098, 107, 320, 321
Fidelity	000
Finlandia	081, 104
Finlux	000, 042, 081, 104, 105
Firstline	037, 043, 045, 072, 209
Fisher	046, 047, 054, 104
Frontech	020
Funai	000
GEC	081
General	020
GoldHand	072
GoldStar	037, 225
Goodmans	000, 020, 037, 072, 278, 403
Graetz	005, 041, 104, 240, 344
Granada	046, 081, 104
Grandin	000, 037, 072
Grundig	003, 006, 007, 016, 072, 081, 195, 207, 226, 347, 349, 403
Hanseatic	037
HCM	072
Hinari	004, 072, 208, 240, 352
Hitachi	000, 004, 041, 042, 105, 166, 235, 240
Hypson	072
Imperial	000
Ingersol	004
Interfunk	081
ITT	005, 041, 046, 104, 106, 240, 344, 384
ITV	037, 278
JVC	008, 041, 067, 084, 206, 207, 384, 486
Kaisui	072
Kendo	106, 209
Kenwood	041
Korpel	072
Lenco	278
Leyco	072
Loewe	004, 006, 037, 081
Logik	004, 240
Luxor	043, 046, 048, 104, 106
M Electronic	000
Manesth	045, 072
Marantz	003, 006, 081, 295
Matsui	004, 036, 088, 208, 209, 295, 348, 352
Melectronic	038
Memorex	000, 037, 046, 104
Memphis	072
Metz	003, 006, 037, 162, 195, 227, 347
Minerva	006, 016, 195
Mitsubishi	043, 067, 081
Multitech	000, 072
Murphy	000
NEC	038, 041, 067
Neckermann	081, 344
Nesco	072
Nokia	041, 046, 104, 106, 240, 344
Nordmende	041, 297, 320, 321, 384
Oceanic	000, 041
Okano	315, 348
Orion	004, 036, 088, 208, 209, 295, 333, 334, 348, 352
Osaki	000, 037, 072
Otto Versand	081
Palladium	006, 037, 041, 072
Panasonic	162, 226, 227
Pathe Cinema	036
Pathe Marconi	041
Pentax	042, 105
Perdio	000
Philco	038
Philips	081, 384, 403
Phonola	081
Pioneer	067, 081, 235
Portland	020
Profex	322
Profitronic	240
Proline	000
Pye	081
Quartz	046
Quelle	081, 344
Radiola	081
Rex	041, 384
RFT	403
Roadstar	037, 072, 240, 278
Saba	041, 206, 207, 297, 320, 321, 384
Saisho	004, 036, 088, 208, 209
Salora	043, 046, 106

Samsung	240, 432
Sansui	041, 067, 271
Sanyo	046, 104
Saville	352
SBR	081
Schaub Lorenz	000, 005, 041, 104, 344
Schneider	000, 072, 081
SEG	240, 322
SEI	004, 081
Seleco	041
Sentra	020
Sharp	048
Shintom	072, 104
Shorai	004
Siemens	003, 006, 016, 037, 054, 081, 104, 195
Silva	037
Singer	045
Sinudyne	004, 081
Solavox	020
Sonolor	046
Sontec	037
Sony	011, 032, 033, 034
Sunkai	348
Sunstar	000
Suntronic	000
Tashiko	000
Tatung	000, 041, 081
Tec	020
Technics	162, 226
Teleavia	041
Telefunken	041, 187, 320, 321,384
Tenosal	072
Tensai	000, 322
Thomson	041, 320, 384
Thorn	036, 041, 084, 104
Toshiba	041, 043, 045, 081, 384
Towada	322
Triumph	208
Uher	240, 344
Ultravox	049, 344
Universum	000, 006, 016, 037, 049, 081, 106, 195, 240, 325
White Westinghouse	344
Yamishi	072
Yokan	072
Yoko	020, 240

Manufacturers' codes listed on pages 49 to 53 are subject to change without notice. If they are changed, this remote control cannot operate the equipment.

Troubleshooting

Use this chart to help you solve daily operational problems. If there is any problem you cannot solve, contact your JVC service center.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The display does not light up.	The power cord is not plugged in.	Plug the power cord into an AC outlet.
No sound from speakers.	Speaker signal cables are not connected.	Check speaker wiring and reconnect if necessary.
	The SPEAKERS 1 and 2 buttons are not set correctly.	Press SPEAKERS 1 and 2 correctly.
	An incorrect source is selected.	Select the correct source.
	Muting is activated.	Press MUTING to cancel the mute.
Sound from one speaker only.	Speaker signal cables are not connected properly.	Check speaker wiring and reconnect if necessary.
	The balance is set to one extreme.	Adjust the balance properly (see page 12).
Continuous hiss or buzzing during FM reception.	Incoming signal is too weak.	Connect an outdoor FM antenna or contact your dealer.
	The station is too far away.	Select a new station.
	An incorrect antenna is used.	Check with your dealer to be sure you have the correct antenna.
	Antennas are not connected properly.	Check connections.
Occasional cracking noise during FM reception.	Ignition noise from automobiles.	Move the antenna farther from automobile traffic.
No colors on the on-screen display.	The color system of the connected TV is not PAL.	Connect a PAL- or multi-color system TV.
Howling during record playing.	Your turntable is too close to speakers.	Move speakers away from the turntable.
"OVERLOAD" starts flashing on the display.	Speakers are overloaded because of high volume.	Rotate the MASTER VOLUME control counterclockwise three or four times, then press STANDBY/ON ⏻/I on the front panel. If "OVERLOAD" does not disappear, unplug the AC power cord, then plug it back again.
	Speakers are overloaded because of short circuit of speaker terminals.	Press STANDBY/ON ⏻/I on the front panel, then check the speaker wiring. If "OVERLOAD" does not disappear, unplug the AC power cord, then plug it back again. If speaker wiring is not short-circuited, contact your dealer.
Remote control does not work.	The remote control mode selector is not set correctly.	Set the selector correctly either to "AUDIO/TV/VCR" or to "CATV/DBS."
	There is an obstruction in front of the remote sensor on the receiver.	Remove the obstruction.
	Batteries are weak.	Replace batteries.

Specifications

Amplifier

Output Power		
	At Stereo operation:	
	Front channels:	100 watts per channel, min. RMS, driven into 4 ohms, 1 kHz with no more than 0.8% total harmonic distortion. (IEC268-3/DIN)
	At Surround operation:	
	Front channels:	70 watts per channel, min. RMS, driven into 4 ohms at 1 kHz with no more than 0.8% total harmonic distortion.
	Center channel:	70 watts, min. RMS, driven into 4 ohms at 1 kHz, with no more than 0.8% total harmonic distortion.
	Rear channels:	70 watts per channel, min. RMS, driven into 4 ohms at 1 kHz, with no more than 0.8% total harmonic distortion.
Total Harmonic Distortion (8 ohms):	0.02% * at 50 watts output (20 Hz to 20 kHz) (* Measured by JVC Audio Analysis System)	

Audio

Audio Input Sensitivity/Impedance (1 kHz):	PHONO (MM):	2.5 mV/47 kohms
	CD, TAPE/MD, TV SOUND/DBS, VCR 1, VCR 2, VIDEO, DVD:	200 mV/47 kohms
Audio Input (DIGITAL IN)* :	Coaxial: DIGITAL 1 (DBS):	0.5 Vp-p/75 ohms
	Optical: DIGITAL 2 (DVD), DIGITAL 3 (CD):	−21 dBm to −15 dBm (660 nm ±30 nm)
	* Corresponding to Linear PCM, Dolby Digital, DTS Digital Surround, and MPEG Multichannel (with sampling frequency — 32 kHz, 44.1 kHz, 48 kHz).	
Audio Output Level:	TAPE/MD, VCR 1, VCR 2:	200 mV
Signal-to-Noise Ratio ('66 IHF/DIN):	PHONO:	70 dB/66 dB (at REC OUT)
	CD, TAPE/MD, TV SOUND/DBS, VCR 1, VCR 2, VIDEO, DVD:	91 dB/67 dB
Frequency Response (8 ohms):	PHONO:	20 Hz to 20 kHz (±1 dB)
	CD, TAPE/MD, TV SOUND/DBS, VCR 1, VCR 2, VIDEO, DVD:	20 Hz to 20 kHz (±1 dB)
RIAA Phono Equalization:	±1.0 dB (20 Hz to 20 kHz)	
Loudness Control (Volume Control at −30 dB):	+6 ±1.0 dB at 100 Hz +4 ±1.0 dB at 10 kHz	
SEA:	Center frequencies:	100 Hz, 1 kHz, 10 kHz
	Control range:	±10 dB ±2 dB

Video

Video Input Sensitivity/Impedance:		
Composite video:	TV SOUND/DBS, VCR 1, VCR 2, VIDEO, DVD:	1 Vp-p/75 ohms
S-video:	TV SOUND/DBS, VCR 1, VIDEO, DVD: (Y: luminance):	1 Vp-p/75 ohms
	(C: chrominance, burst):	0.286 Vp-p/75 ohms
Video Output Level:		
Composite video:	VCR 1, VCR 2, MONITOR OUT:	1 Vp-p/75 ohms
S-video:	VCR 1, MONITOR OUT: (Y: luminance):	1 Vp-p/75 ohms
	(C: chrominance, burst):	0.286 Vp-p/75 ohms
Synchronization:	Negative	
Signal-to-Noise Ratio:	45 dB	
On-Screen Color System:	PAL	

FM tuner (IHF)

Tuning Range:	87.50 MHz to 108.00 MHz	
Usable Sensitivity:	Monaural:	12.8 dBf (1.2 μV/75 ohms)
50 dB Quieting Sensitivity:	Monaural:	21.3 dBf (3.2 μV/75 ohms)
	Stereo:	41.3 dBf (31.5 μV/75 ohms)
Signal-to-Noise Ratio (IHF-A weighted):	Monaural:	78 dB at 85 dBf
	Stereo:	73 dB at 85 dBf
Total Harmonic Distortion:	Monaural:	0.4% at 1 kHz
	Stereo:	0.6% at 1 kHz
Stereo Separation at REC OUT:	35 dB at 1 kHz	
Alternate Channel Selectivity:	45 dB (±400 kHz)	
Frequency Response:	30 Hz to 15 kHz: (+0.5 dB, −3 dB)	

AM (MW/LW) tuner

Tuning Range:	MW:	522 kHz to 1,629 kHz
	LW:	144 kHz to 288 kHz
Usable Sensitivity:	Loop antenna	400 μV/m
Signal-to-Noise Ratio:		50 dB (100 mV/m)

General

Power Requirements:	AC 230V ~, 50 Hz
Power Consumption:	250 watts (at operation) 2 watts (in standby mode)
Dimensions (W x H x D):	435 x 157 x 412.5 mm (17 [illegible] x 6 [illegible] x 16 ¼ inches)
Mass:	11.3 kg (25.0 lbs)

Designs & specifications are subject to change without notice.

Disassembly method

■ Removing the top cover

(See Fig. 1)

1. From behind body, remove the four screws 1 retaining the both side and three screws 2 retaining the top cover from the rear side.
2. Lift the back of the top cover spreading both sides to remove.

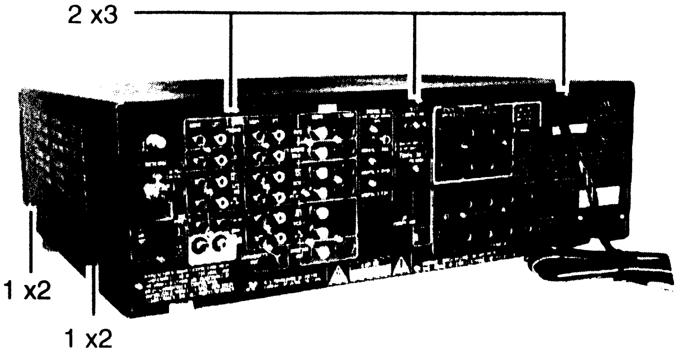


Fig. 1

■ Removing the front panel

(See Fig. 2 and Fig. 3)

1. Remove the top cover.
2. Disconnect the six connectors CN202, CN206, CN244, CN400, CN402 and CN416. and cut the wire holders.
3. Remove the three screws 3 retaininging the front panel and five screws 4 retaining the front panel from the bottom side.
4. Remove the front panel assembly.

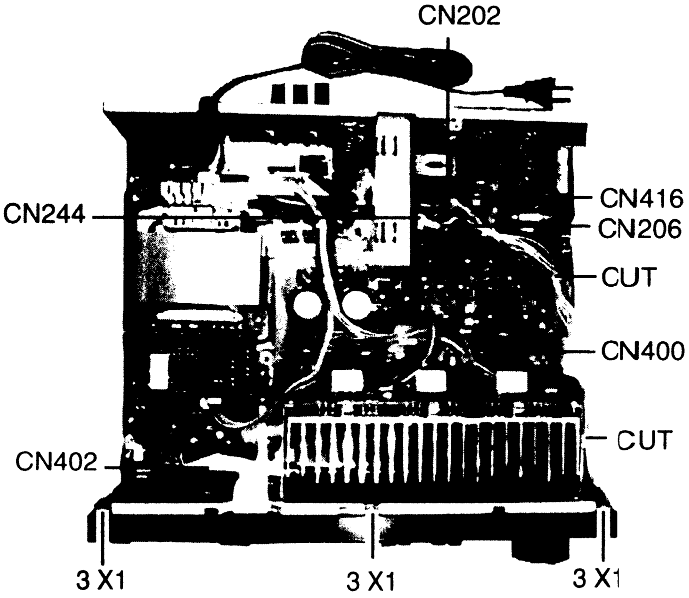


Fig. 2

■ Removing the rear panel

(See Fig. 4)

1. Remove the top cover.
2. Pull out the power cord stopper 5.
3. Remove the 28 piecs screws 6 retaining the rear panel.
4. Remove the rear panel.

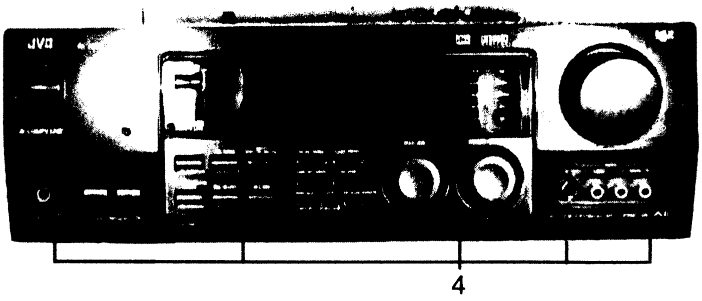


Fig. 3

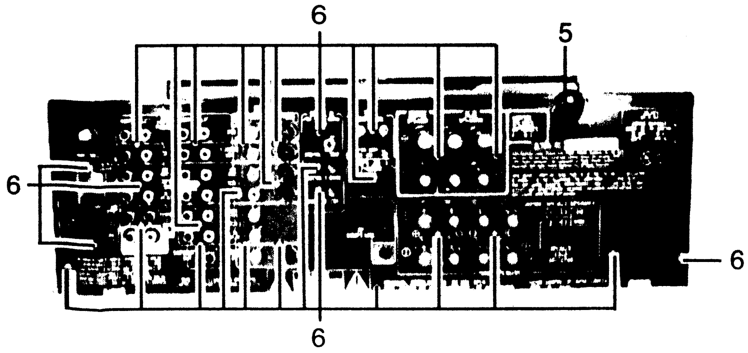


Fig. 4

■ Removing front p.c. board

(See Figs. 5and 6)

1. Remove the top cover.
2. Remove the front panel.
3. Pull out the volume knob 7, then turn off to counterclockwise the volume nut 8.
4. Remove the six screws 9and disconnect connector wire at CN422 A and CN430 B.
5. Remove the front p.c. board.

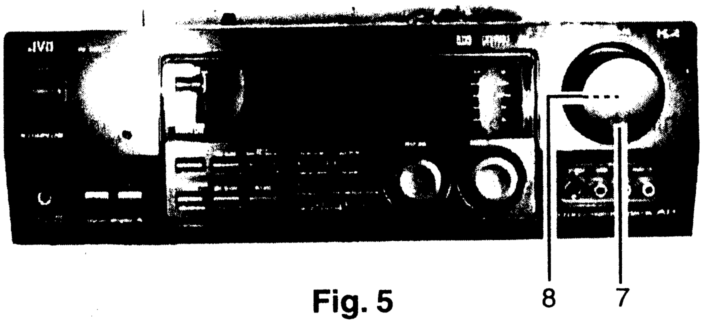


Fig. 5

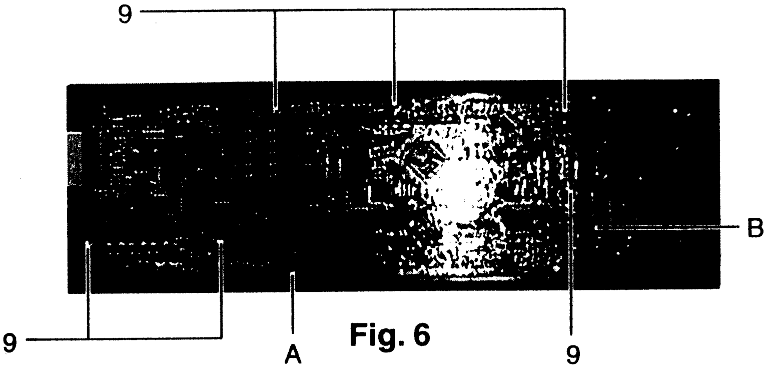


Fig. 6

■ Removing switch p.c. board

(See Fig. 7)

1. Remove the top cover.
2. Remove the front panel.
3. Remove the front p.c. board.
4. Remove the six screws C and disconnect connector wire at CN422 D and CN430 E.
5. Remove the p.c. board cover from four engagements F at front panel.
6. Remove the switch p.c. board.

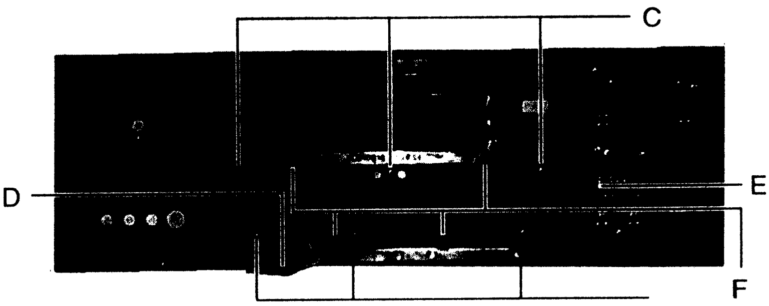


Fig. 7

■ Removing remote p.c. board

(See Fig. 8)

1. Remove the top cover.
2. Remove the front panel.
3. Remove four screws G.
4. Remove the remote p.c. board.

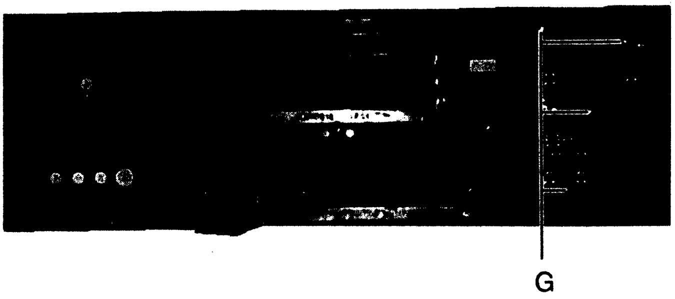


Fig. 8

■ Removing the main p.c. board

(See Fig. 9)

1. Remove the top cover.
2. Remove the front panel.
3. Remove the rear panel.
4. Remove the joint p.c.board H,Iand J.
5. Remove the pre amp p.c. board K.
6. Remove the tuner p.c. board L.
7. Remove the SEA p.c. board M.
8. Remove the analog p.c. board N.
9. Remove the center tone p.c. board O.
10. Remove the V-audio p.c. board P.
11. Remove the video p.c. board Q.
12. Remove the S-video p.c. board R.
13. Remove the TXT compulink p.c. board S.
14. Remove the seven screws U and take off the shield cover W.
15. Remove the DSP p.c. board X.
16. Remove the five screws Y.
17. The main p.c. board slide to right way and lift up right side of the main p.c. board.

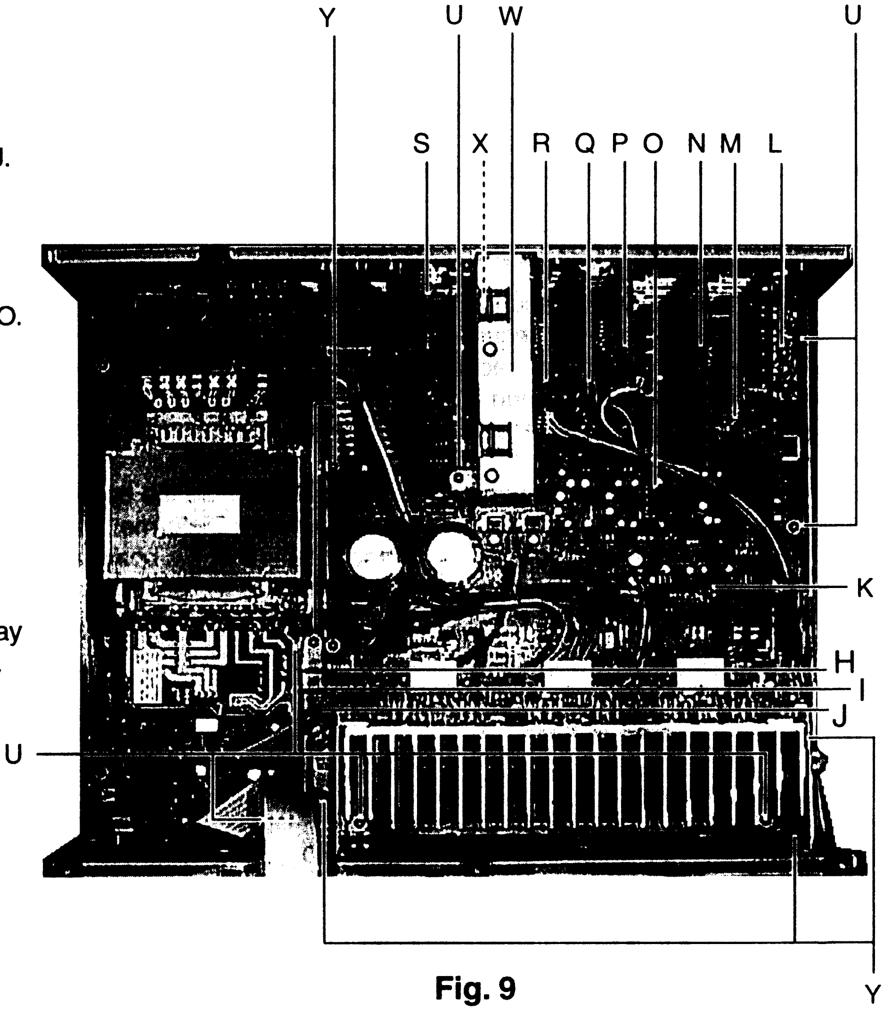


Fig. 9

■ Removing the amp p.c. board

(See Fig. 10)

1. Remove the top cover.
2. Remove the front panel.
3. Remove the rear panel.
4. Remove the joint p.c. board H,Iand J.
5. Remove the pre amp p.c. board K.
6. Remove the tuner p.c. board L.
7. Remove the SEA p.c. board M.
8. Remove the analog p.c. board N.
9. Remove the center tone p.c. board O.
10. Remove the V-audio p.c. board P.
11. Remove the video p.c. board Q.
12. Remove the S-video p.c. board R.
13. Remove the TXT compulink p.c. board S.
14. Remove the six screws Z and four screws a.
15. Remove the amp p.c. board.

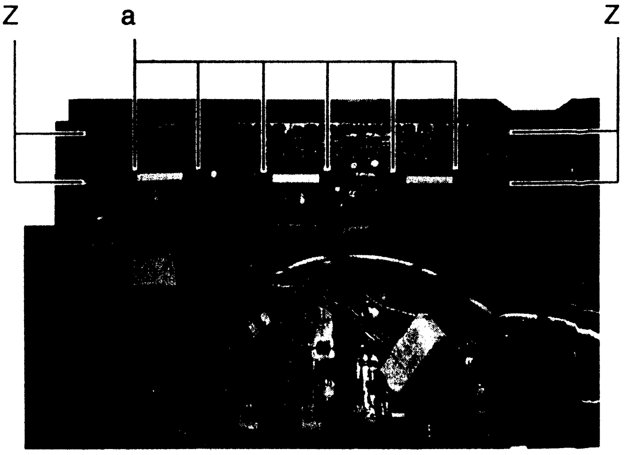


Fig. 10

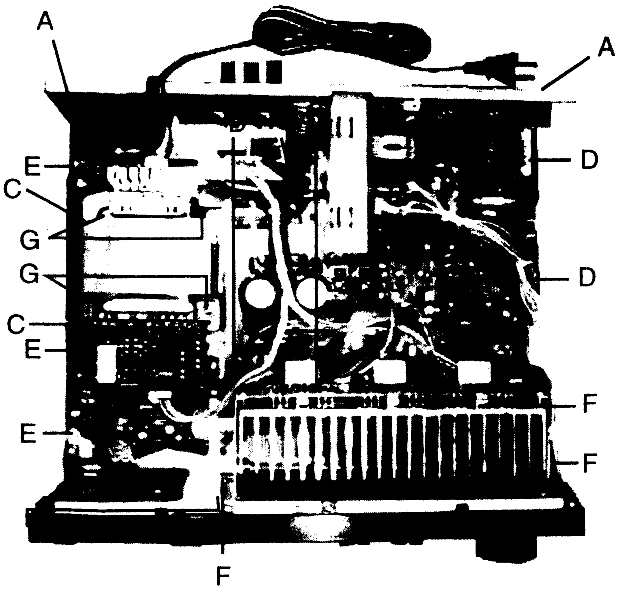
RX-888 Disassembly method for performing power check

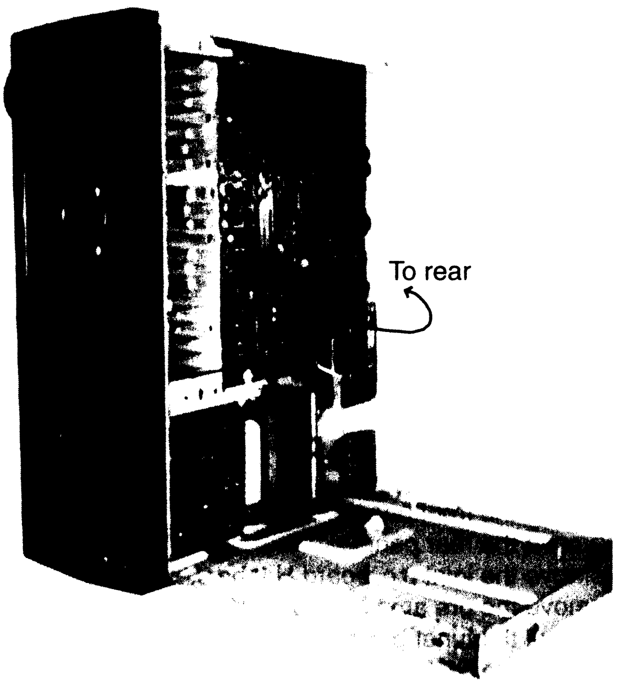
Conditions:
1. The heat sink must be installed.
2. The p.c. boards must be grounded to the rear panel.

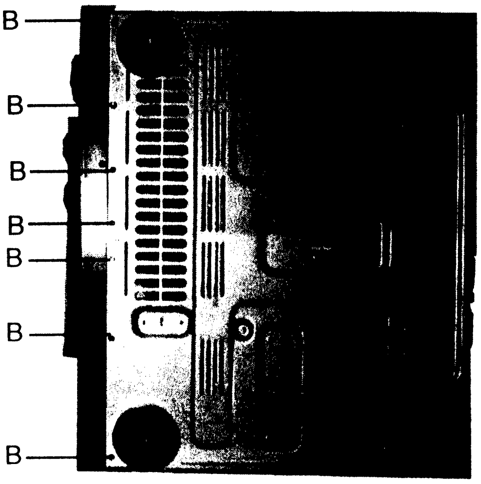
This method (removal of the bottom chassis) allows you to replace the power transistor.

Procedures:

1. Remove the top cover.
2. Remove the four screws A securing the rear panel to the chassis.
3. Remove the seven screws B securing the front chassis to the bottom chassis, from the bottom side.
4. Cut out the two wire holders C securing the power supply wires to the bottom chassis.
5. Remove the four screws securing D the main amp p.c. board to the bottom chassis.
6. Remove the three screws E securing the primary and secondary power supply p.c. boards to the bottom chassis.
7. Remove the four screws F securing the heat sink bracket to the bottom chassis.
8. Remove the four screws G securing the power supply transformer.
9. Hold the power supply transformer and raise the amplifier p.c.board assembly.
   at this time, pay attention not to apply twisting stress to the preamp p.c. board.
10. Ground the C807 ground and C808 positive land to the rear panel.
11. Perform the power check.

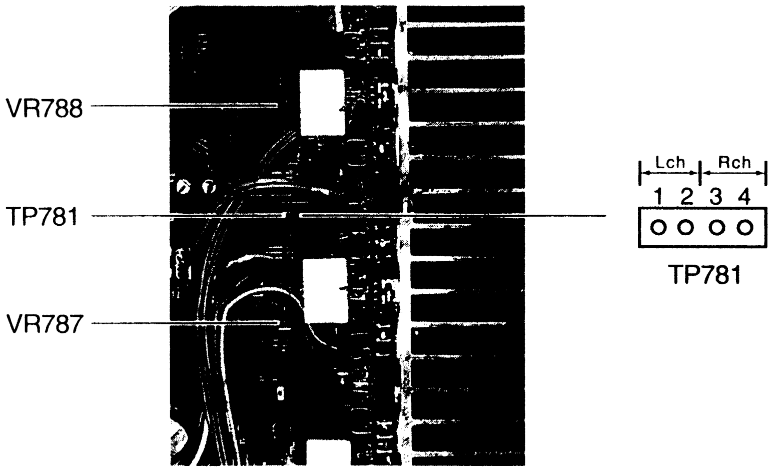






Adjustment method

■ Power amplifier section



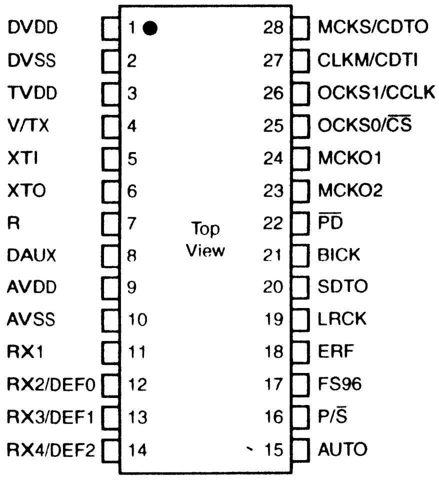
Idling current

1. Set the volume control to minimum during this adjustment. set the surround mode "OFF"
2. Turn VR787 and VR788 fully counterclockwise to warm up before adjustment.
   If the heat sink is already warm from previous use the correct adjustment can not be made.
3. For L-ch,connect a DC voltmeter between TP781's pin1 and pin2 (Lch) And,connect it between pin3 and pin4(Rch).
4. 30 minutes later after power on, adjust VR787 for L-ch, or VR788 for R-ch so that the DC voltmeter value has 1mV~10mV.

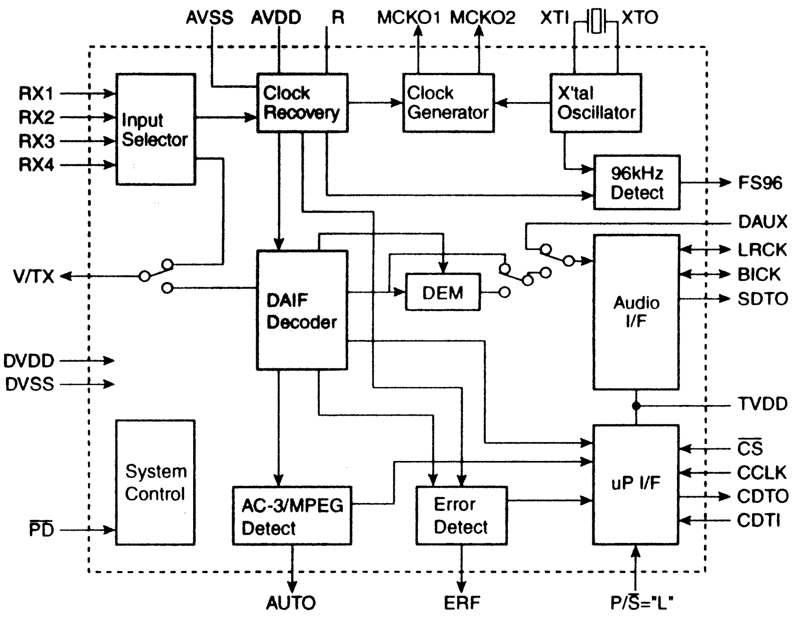
Discription of majer IC's

■ AK4110UF (IC551) : DIR

1. Pin Layout


DVDD 1
DVSS 2
TVDD 3
V/TX 4
XTI 5
XTO 6
R 7
DAUX 8
AVDD 9
AVSS 10
RX1 11
RX2/DEF0 12
RX3/DEF1 13
RX4/DEF2 14
Top View
28 MCKS/CDTO
27 CLKM/CDTI
26 OCKS1/CCLK
25 OCKS0/CS
24 MCKO1
23 MCKO2
22 PD
21 BICK
20 SDTO
19 LRCK
18 ERF
17 FS96
16 P/S
15 AUTO

2. Block diagram


AVSS
AVDD
R
MCKO1
MCKO2
XTI
XTO
RX1
RX2
RX3
RX4
Input Selector
Clock Recovery
Clock Generator
X'tal Oscillator
96kHz Detect
FS96
DAUX
LRCK
BICK
SDTO
V/TX
DAIF Decoder
DEM
Audio I/F
DVDD
DVSS
TVDD
System Control
uP I/F
CS
CCLK
CDTO
CDTI
PD
AC-3/MPEG Detect
Error Detect
AUTO
ERF
P/S="L"

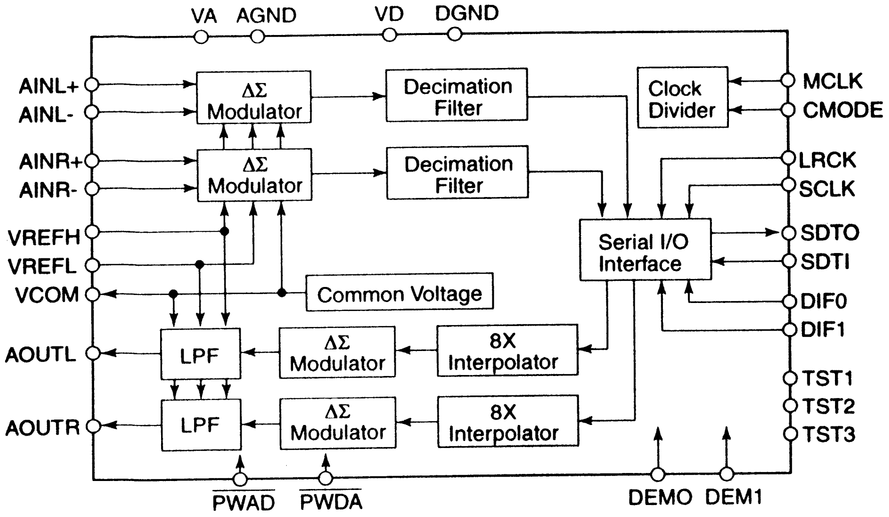
3. Pin Function

No.	Pin Name	I/O	Function
1	DVDD	-	Digital Power Supply Pin, 3.3V
2	DVSS	-	Digital Ground Pin
3	TVDD	-	I/O Buffer Power Supply Pin, 3.3V or 5V
4	V	O	Validity Flag Output Pin in parallel mode
	TX	O	Transmit channel (through data) Output Pin in serial mode
5	XTI	I	X'tal Input Pin
6	XTO	O	X'tal Output Pin
7	R	-	External Resistor Pin 9.1Kohm+/-1% external resistor to AVSS.
8	DAUX	I	Auxiliary Audio Data input Pin
9	AVDD	-	Analog Power Supply Pin
10	AVSS	-	Analog Ground pin
11	RX1	I	Receiver Channel 1 This channel is selected by parallel mode or at reset.
12	DIF0	I	Audio Data Interface format 0 Pin in parallel mode
	RX2	I	Receiver Channel 2 in serial mode
13	DIF1	I	Audio Data Interface format 1 Pin in parallel mode
	RX3	I	Receiver Channel 3 in serial mode
14	DIF2	I	Audio Data Interface format 2 Pin in parallel mode
	RX4	I	Receiver Channel 4 in serial mode
15	AUTO	O	AC-3/MPEG Detect Pin "L": No detect, "H": Detect

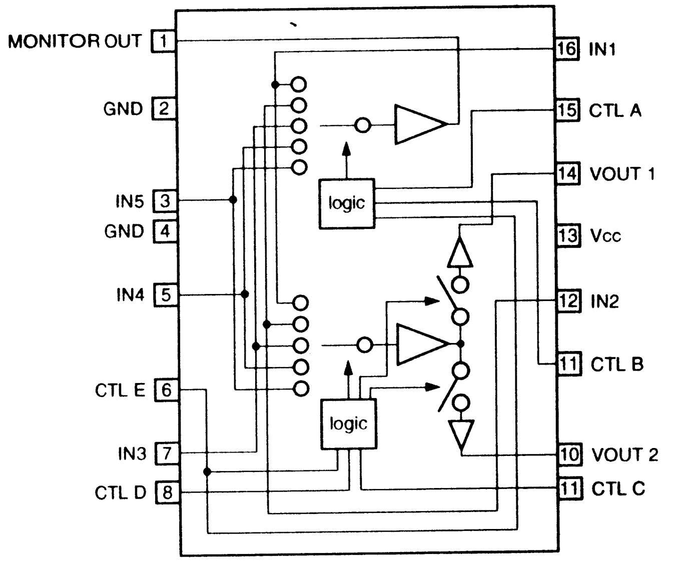
No.	Pin Name	I/O	Function
16	P/$\overline{\text{S}}$	I	Palrallel/Serial Select Pin "L": Serial mode, "H": Parallel mode
17	FS96	O	- ("L" up to fs.=105kHz.)
18	ERF	O	Unlock & Parity Error Output Pin "L": No error, "H": Error
19	LRCK	I/O	Output Channel Clock Pin
20	SDTO	O	Audio Serial Data Output Pin
21	BICK	I/O	Audio Serial Data Clock Pin
22	$\overline{\text{PD}}$	I	Power-Down Mode Pin When "L", the AK 4110 is powered-down and reset.
23	MCKO2	O	Master Clock #2 Output Pin
24	MCKO1	O	Master Clock #1 Output Pin
25	OCKS0	I	Output Clock Select 0 Pin in parallel mode
	$\overline{\text{CS}}$	I	Chip Select Pin in serial mode
26	OCKS1	I	Output Clock Select 1 Pin in parallel mode
	CCLK	I	Control Data Clock Pin in serial mode
27	CLKM	I	Master Clock Operation Mode Pin in parallel mode
	CDTI	I	Control Date Input Pin in serial mode
28	MCKS	I	Master Clock Sourse select Pin in parallel mode
	CDTO	O	Contorol Date Output Pin in serial mode

Note: All input pins except internal pull-down pins should not be left floating.

■ AK4520A-VF-X (IC620) : A/D & D/A Converter


VA
AGND
VD
DGND
AINL+
AINL-
AINR+
AINR-
VREFH
VREFL
VCOM
AOUTL
AOUTR
ΔΣ Modulator
ΔΣ Modulator
Decimation Filter
Decimation Filter
Clock Divider
Serial I/O Interface
Common Voltage
LPF
LPF
ΔΣ Modulator
ΔΣ Modulator
8X Interpolator
8X Interpolator
MCLK
CMODE
LRCK
SCLK
SDTO
SDTI
DIF0
DIF1
TST1
TST2
TST3
PWAD
PWDA
DEMO
DEM1

■ BA7625 (IC201/IC242) : Video selector

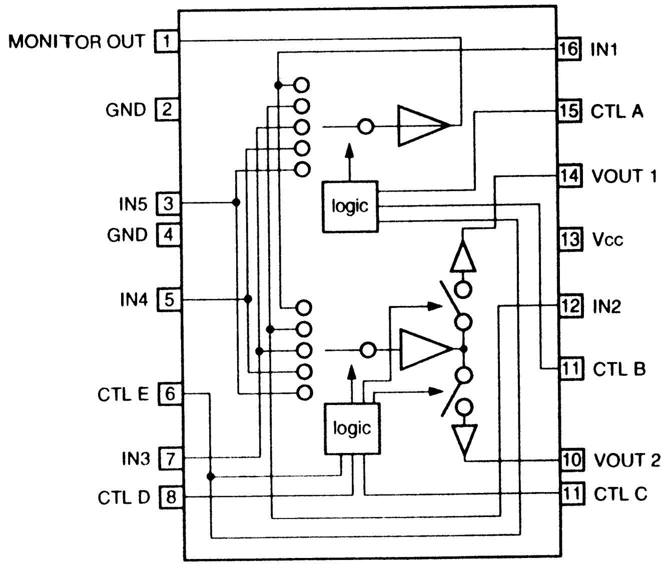

MONITOR OUT 1
GND 2
IN5 3
GND 4
IN4 5
CTL E 6
IN3 7
CTL D 8
16 IN1
15 CTL A
14 VOUT 1
13 Vcc
12 IN2
11 CTL B
10 VOUT 2
11 CTL C
logic
logic

A	B	E	MONITOR OUT
L	L	*	IN1
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	VOUT1
L	L	*	--
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	VOUT2
L	L	*	IN1
H	L	*	--
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

■ BA7626 (IC241) : Video selector

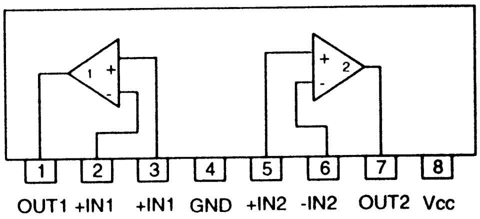

MONITOR OUT 1
GND 2
IN5 3
GND 4
IN4 5
CTL E 6
IN3 7
CTL D 8
16 IN1
15 CTL A
14 VOUT 1
13 Vcc
12 IN2
11 CTL B
10 VOUT 2
11 CTL C
logic
logic

A	B	E	MONITOR OUT
L	L	*	IN1
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

C	D	E	VOUT1
L	L	*	--
H	L	*	IN2
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

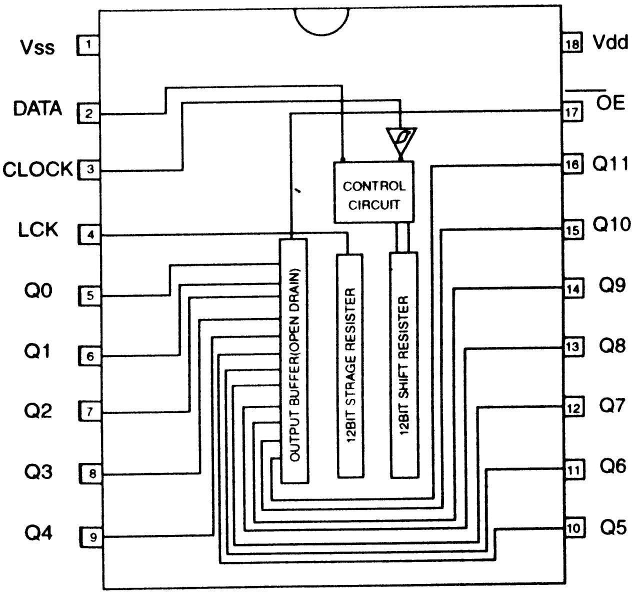
C	D	E	VOUT2
L	L	*	IN1
H	L	*	--
L	H	*	IN3
H	H	L	IN4
H	H	H	IN5

■ BA15218N (IC342/IC343/IC391/IC453IC362/IC363) : Dual Ope. Amp.


1
2
+
-
+
-
1
2
3
4
5
6
7
8
OUT1
+IN1
+IN1
GND
+IN2
-IN2
OUT2
Vcc

■ BU2092 (IC402/IC405) : Port expander

1.Terminal Layout

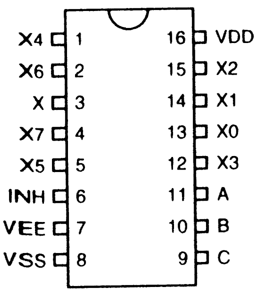

Vss
DATA
CLOCK
LCK
Q0
Q1
Q2
Q3
Q4
1
2
3
4
5
6
7
8
9
18
17
16
15
14
13
12
11
10
Vdd
OE
Q11
Q10
Q9
Q8
Q7
Q6
Q5
CONTROL CIRCUIT
OUTPUT BUFFER(OPEN DRAIN)
12BIT STRAGE RESISTER
12BIT SHIFT RESISTER

2.Pin Function

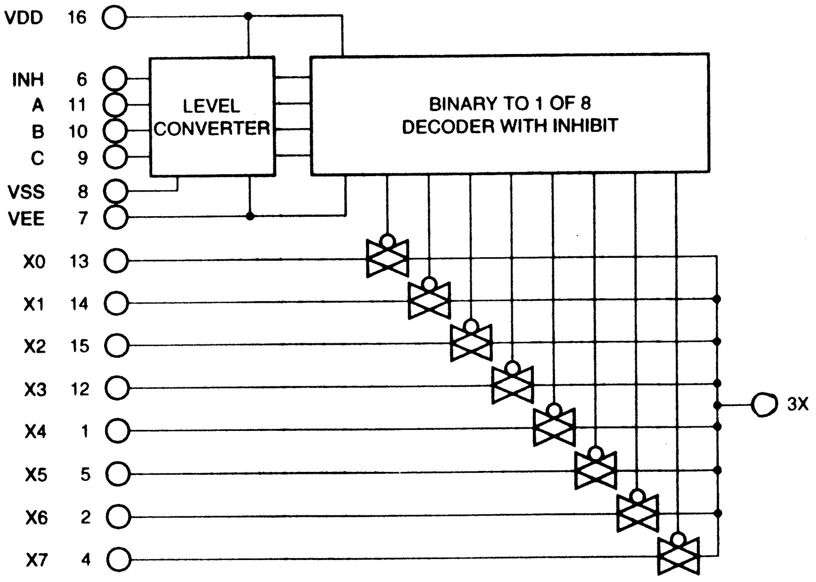
<table>
<tr><th>Pin No.</th><th>Symbol</th><th>I/O</th><th>Function</th></tr>
<tr><td>1</td><td>Vss</td><td>-</td><td>Connect to GND</td></tr>
<tr><td>2</td><td>DATA</td><td>I</td><td>Serial Data input</td></tr>
<tr><td>3</td><td>CLOCK</td><td>I</td><td>Shift Clock of Data</td></tr>
<tr><td>4</td><td>LCK</td><td>I</td><td>Latch Clock of Data</td></tr>
<tr><td>5~16</td><td>Q0~Q11</td><td>O</td><td>Parallel Data Output<table><tr><td>Latch Data</td><td>L</td><td>H</td></tr><tr><td>OUTPUT</td><td>ON</td><td>OFF</td></tr></table></td></tr>
<tr><td>17</td><td>$\overline{OE}$</td><td>I</td><td>Output Enable</td></tr>
<tr><td>18</td><td>Vdd</td><td>-</td><td>Power Supply</td></tr>
</table>

■ BU4051BC (IC341) : Analog multiprexers/DE multiprexers

1.Terminal

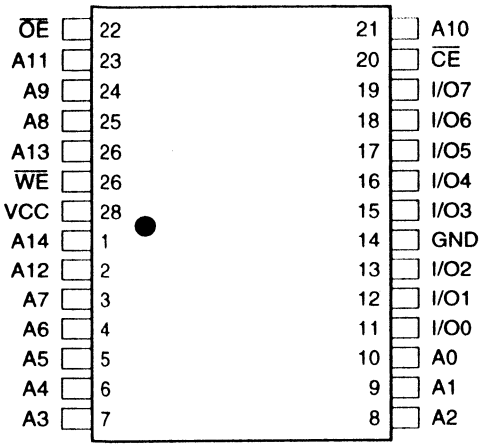

X4
X6
X
X7
X5
INH
VEE
VSS
1
2
3
4
5
6
7
8
16
15
14
13
12
11
10
9
VDD
X2
X1
X0
X3
A
B
C

2.Brock Diagram

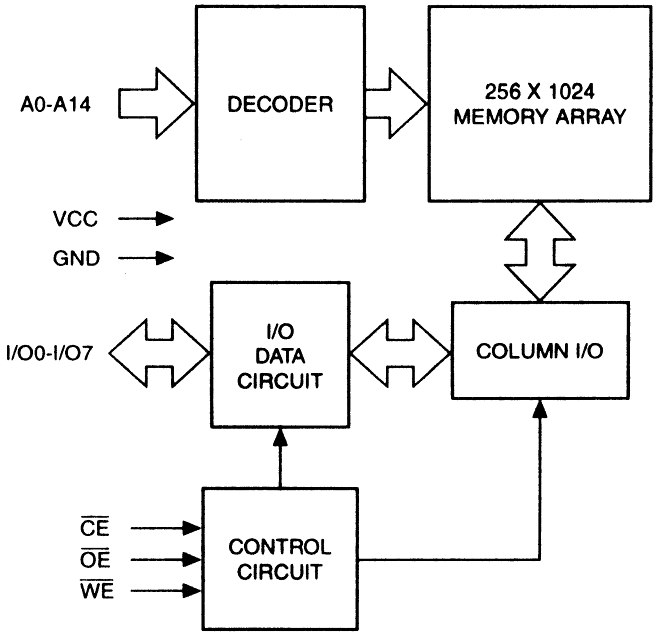

VDD 16
INH 6
A 11
B 10
C 9
VSS 8
VEE 7
X0 13
X1 14
X2 15
X3 12
X4 1
X5 5
X6 2
X7 4
LEVEL CONVERTER
BINARY TO 1 OF 8 DECODER WITH INHIBIT
3X

■ IS61LV256 (IC541, IC542, IC543) : L. V. Static RAM

1. Pin Layout

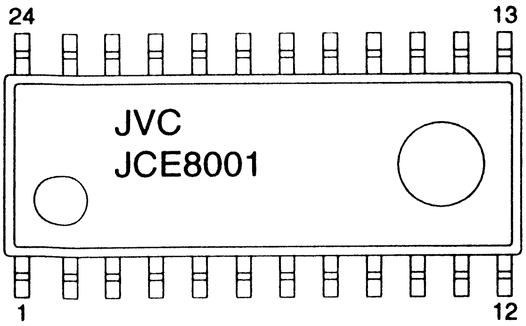

$\overline{OE}$ 22
A11 23
A9 24
A8 25
A13 26
$\overline{WE}$ 26
VCC 28
A14 1
A12 2
A7 3
A6 4
A5 5
A4 6
A3 7
21 A10
20 $\overline{CE}$
19 I/O7
18 I/O6
17 I/O5
16 I/O4
15 I/O3
14 GND
13 I/O2
12 I/O1
11 I/O0
10 A0
9 A1
8 A2

2. Block diagram


A0-A14
DECODER
256 X 1024
MEMORY ARRAY
VCC
GND
I/O0-I/O7
I/O
DATA
CIRCUIT
COLUMN I/O
$\overline{CE}$
$\overline{OE}$
$\overline{WE}$
CONTROL
CIRCUIT

■ JCE8001 (IC571) : K2 Interface

1. Tarminal Layout

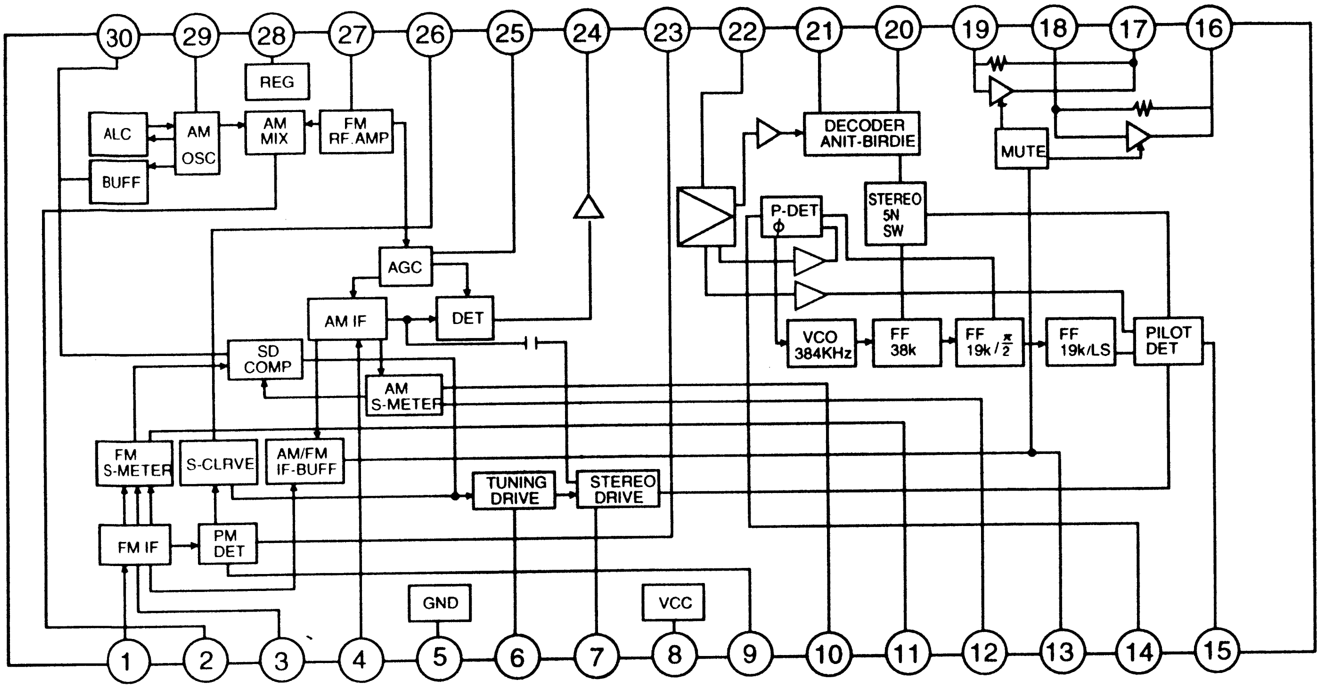

24
13
JVC
JCE8001
1
12

2. Pin Function

No.	Signal	I/O	Function
1	M3	I	Control signal 3
2	M5	I	Control signal 5
3	DI3	I	Data input 3
4	DI2	I	Data input 2
5	DI1	I	Data input 1
6	SYI	I	Input
7	BCI	I	Input Clock
8	M4	I	Control signal 4
9	M6	I	Control signal 6
10	CKO	O	Clock output
11	CKOB	O	Clock output
12	GND	–	Signal Ground
13	M1	I	Control signal 1
14	VDD	–	+5V power supply
15	XI	I	Clock intput
16	XO	O	Clock output
17	GND	–	Signal ground
18	BCO	O	Output signal
19	SYO	O	Output signal
20	DO1	O	Data output 1
21	DO2	O	Data output 2
22	DO3	O	Data output 3
23	M2	I	Control signal 2
24	VDD	–	+5V power supply

■ LA1838(IC102) : FM AM IF AMP&detector, FM MPX Decorder

1. Block Diagram


30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
REG
ALC
AM
OSC
AM
MIX
FM
RF.AMP
BUFF
DECODER
ANIT-BIRDIE
MUTE
STEREO
SN
SW
P-DET
φ
AGC
AM IF
DET
SD
COMP
AM
S-METER
VCO
384KHz
FF
38k
FF π
19k/2
FF
19k/LS
PILOT
DET
FM
S-METER
S-CLRVE
AM/FM
IF-BUFF
TUNING
DRIVE
STEREO
DRIVE
FM IF
PM
DET
GND
VCC
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

3. Pin Function

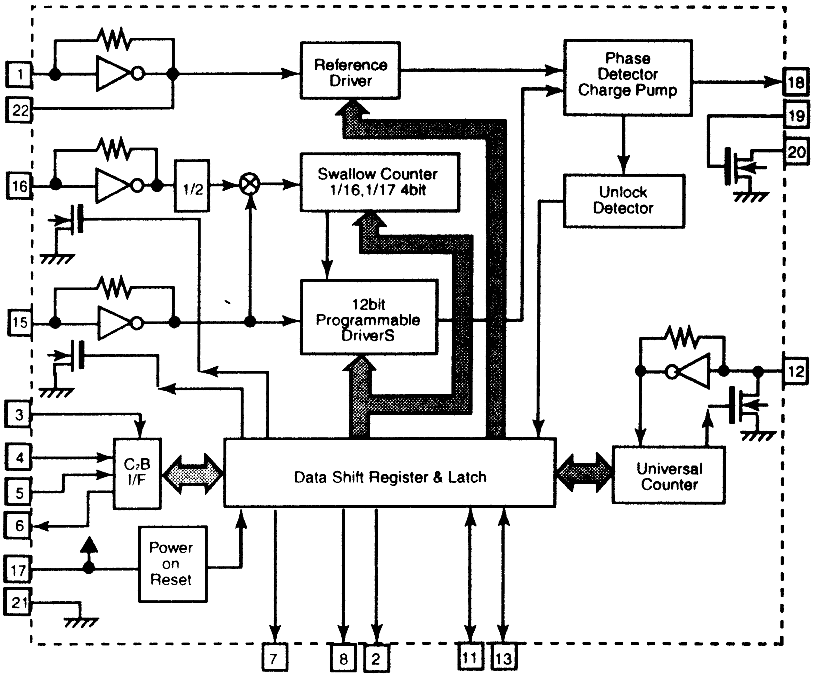
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	FM IN	I	This is an input terminal of FM IF signal.	16	L OUT	O	Left channel signal output.
2	AM MIX	O	This is an out put terminal for AM mixer.	17	R OUT	O	Right channel signal output.
3	FM IF	I	Bypass of FM IF	18	L IN	I	Input terminal of the Left channel post AMP.
4	AM IF	I	Input of AM IF Signal.	19	R IN	I	Input terminal of the Right channel post AMP.
5	GND	–	This is the device ground terminal.	20	RO	O	Mpx Right channel signal output.
6	TUNED	O	When the set is tunning,this terminal becomes "L".	21	LO	O	Mpx Left channel signal output.
7	STEREO	O	Stereo indicator output. Stereo "L", Mono: "H"	22	IF IN	I	Mpx input terminal
8	VCC	–	This is the power supply terminal.	23	FM OUT	O	FM detection output.
9	FM DET	–	FM detect transformer.	24	AM DET	O	AM detection output.
10	AM SD	–	This is a terminal of AM ceramic filter.	25	AM AGC	I	This is an AGC voltage input terminal for AM
11	FM VSM	O	Adjust FM SD sensitivity.	26	AFC	–	This is an output terminal of voltage for FM-AFC.
12	AM VSM	O	Adjust AM SD sensitivity.	27	AM RF	I	AM RF signal input.
13	MUTE	I/O	When the signal of IF REQ of IC121(LC72131) appear, the signal of FM/AM IF output. //Muting control input.	28	REG	O	Register value between pin 26 and pin28 desides the frequency width of the input signal.
14	FM/AM	I	Change over the FM/AM input. "H" :FM, "L" : AM	29	AM OSC	–	This is a terminal of AM Local oscillation circuit.
15	MONO/ST	O	Stereo : "H", Mono: "L"	30	OSC BUFFER	O	AM Local oscillation Signal output.

■LC72136N(IC121) : PLL Frequency sinsesizer

1. Layout

XT	1	22	$\overline{\mathrm{XT}}$
$\overline{\mathrm{FM}}$/AM	2	21	GND
CE	3	20	LPFOUT
DI	4	19	LPFIN
CLOCK	5	18	PD
DO	6	17	VCC
FM/ST/VCO	7	16	FMIN
$\overline{\mathrm{AM}}$/FM	8	15	AMIN
	9	14	
	10	13	IFCONT
SDIN	11	12	IFIN

2. Block



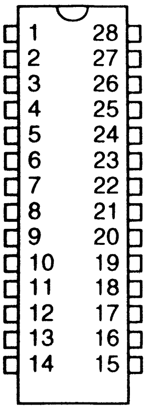
1
22
Reference Driver
Phase Detector Charge Pump
18
19
20
16
1/2
Swallow Counter 1/16,1/17 4bit
Unlock Detector
15
12bit Programmable DriverS
12
3
4
5
6
C,B I/F
Data Shift Register & Latch
Universal Counter
17
Power on Reset
21
7
8
2
11
13

3. Function

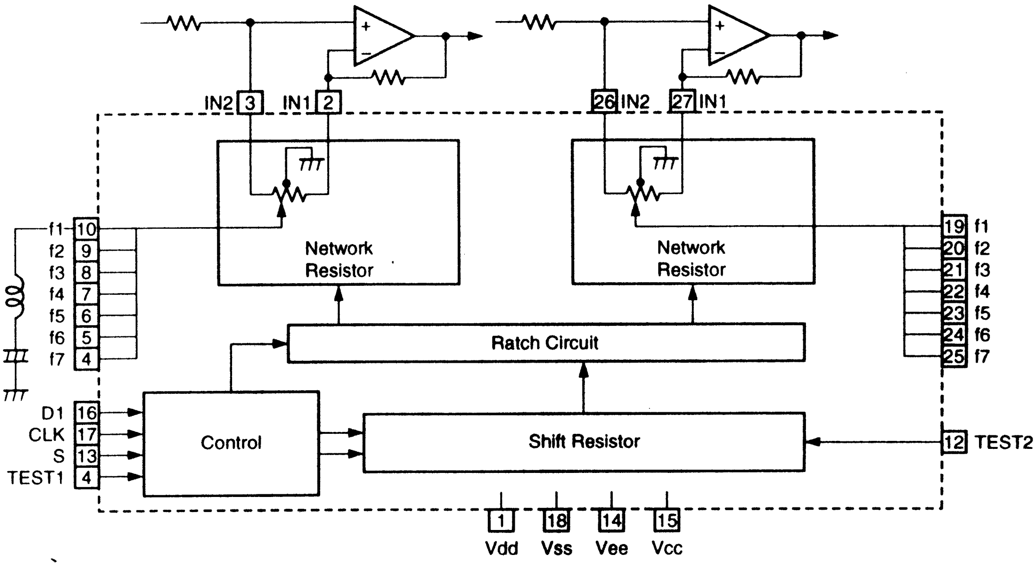
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75kHz)	12	IFIN	I	IF counter signal input
2	$\overline{\mathrm{FM}}$/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the serial data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power suplly(VDD=4.5-5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequency. L: Low Agreement: Height impedance)
8	$\overline{\mathrm{AM}}$/FM	O	Not use	19	LPFIN	I	Input for active lowpassfilter of PLL
9		-	Not use	20	LPFOUT	O	Output for active lowpassfilter of PLL
10		-	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	$\overline{\mathrm{XT}}$	I	X'tal oscillator(75KHz)

■ LC7522 (IC451) : Variable resistor for SEA Control

1.Terminal


1
2
3
4
5
6
7
8
9
10
11
12
13
14
28
27
26
25
24
23
22
21
20
19
18
17
16
15

2.Block Diagram

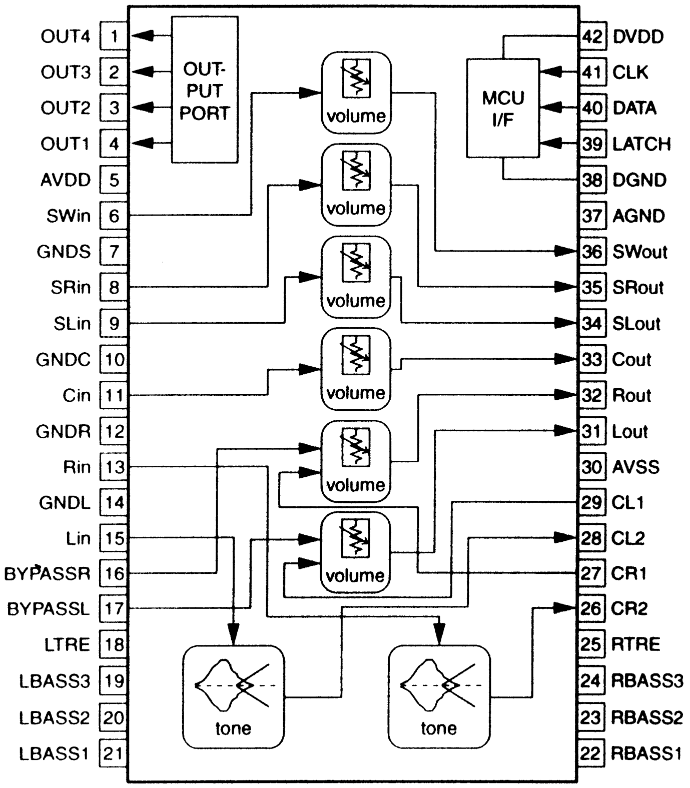

IN2 3
IN1 2
26 IN2
27 IN1
+
−
Network Resistor
Network Resistor
Ratch Circuit
Control
Shift Resistor
f1 10
f2 9
f3 8
f4 7
f5 6
f6 5
f7 4
D1 16
CLK 17
S 13
TEST1 4
19 f1
20 f2
21 f3
22 f4
23 f5
24 f6
25 f7
12 TEST2
1 Vdd
18 Vss
14 Vee
15 Vcc

3.Function

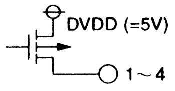
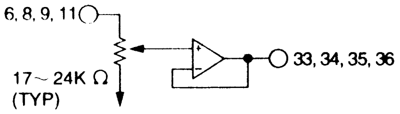
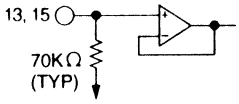
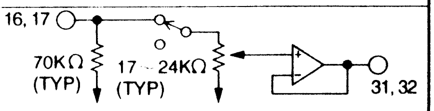
Pin No.	Symbole	Function
1 18 14 15	VDD VSS VEE VCC	Power Supply terminal for Audio signal +7V(typ) Power Supply terminal 0V Power Supply terminal for Audio signal. Single channel use, joint VSS. Power Supply terminal +5V(typ)
2,27 3,26	IN 1 IN 2	Audio signal Input terminal IN1 joint oposit input of Operation amp. IN2 joint unoposit input of Operation amp. It have Right and Left.
16	D1	Data input terminal from CPU Shumit inverter style
17	CLK	Clock input terminal from CPU Shumit inverter style
4~10 19~25	f1~f7	Joint terminal of B.P.F. f1~f7 X Right, Left Total 14 terminal
11 12	TEST1 TEST2	Internal test terminal of IC It can use open condition
13	S	Select terminal for 2 tip use "1" input, key code 7C3→VDD joint "0" input, key code 7C2→VEE joint
28	NC	No use

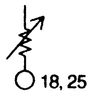
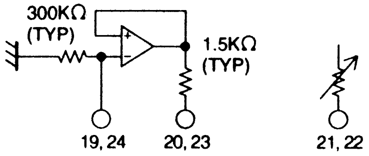
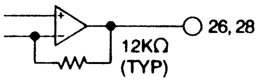
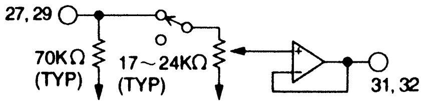
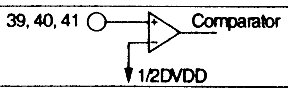
■ M62446FP (IC651) : Surround volume contol

1. Terminal Layout


OUT4 1
OUT3 2
OUT2 3
OUT1 4
AVDD 5
SWin 6
GNDS 7
SRin 8
SLin 9
GNDC 10
Cin 11
GNDR 12
Rin 13
GNDL 14
Lin 15
BYPASSR 16
BYPASSL 17
LTRE 18
LBASS3 19
LBASS2 20
LBASS1 21
OUT-PUT PORT
volume
MCU I/F
tone
42 DVDD
41 CLK
40 DATA
39 LATCH
38 DGND
37 AGND
36 SWout
35 SRout
34 SLout
33 Cout
32 Rout
31 Lout
30 AVSS
29 CL1
28 CL2
27 CR1
26 CR2
25 RTRE
24 RBASS3
23 RBASS2
22 RBASS1

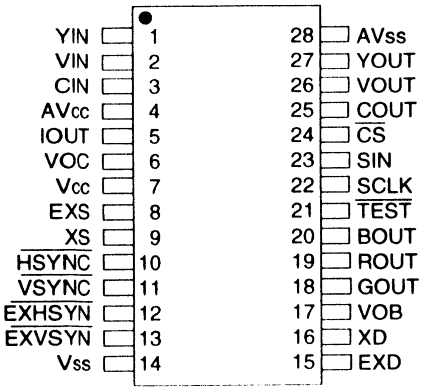
3. Pin Function

No.	Pin Name	I/O	Function or Equivalent circuit
1	OUT4	O	
2	OUT3		
3	OUT2		
4	OUT1		
5	AVDD	-	+7V
7	GNDS	-	Connects to and log GND
10	GNDC		
12	GNDR		
14	GNDL		
6	SWin	I	 6, 8, 9, 11 17~24K Ω (TYP) 33, 34, 35, 36
8	SRin		
9	SLin		
11	Cin		
36	SWout	O	
35	SRout		
34	SLout		
33	Cout		
13	Rin	I	 13, 15 70KΩ (TYP)
15	Lin		
16	BYPASSR	I	 16, 17 70KΩ (TYP) 17~24KΩ (TYP) 31, 32
17	BYPASSL		
31	Lout	O	
32	Rout	O	

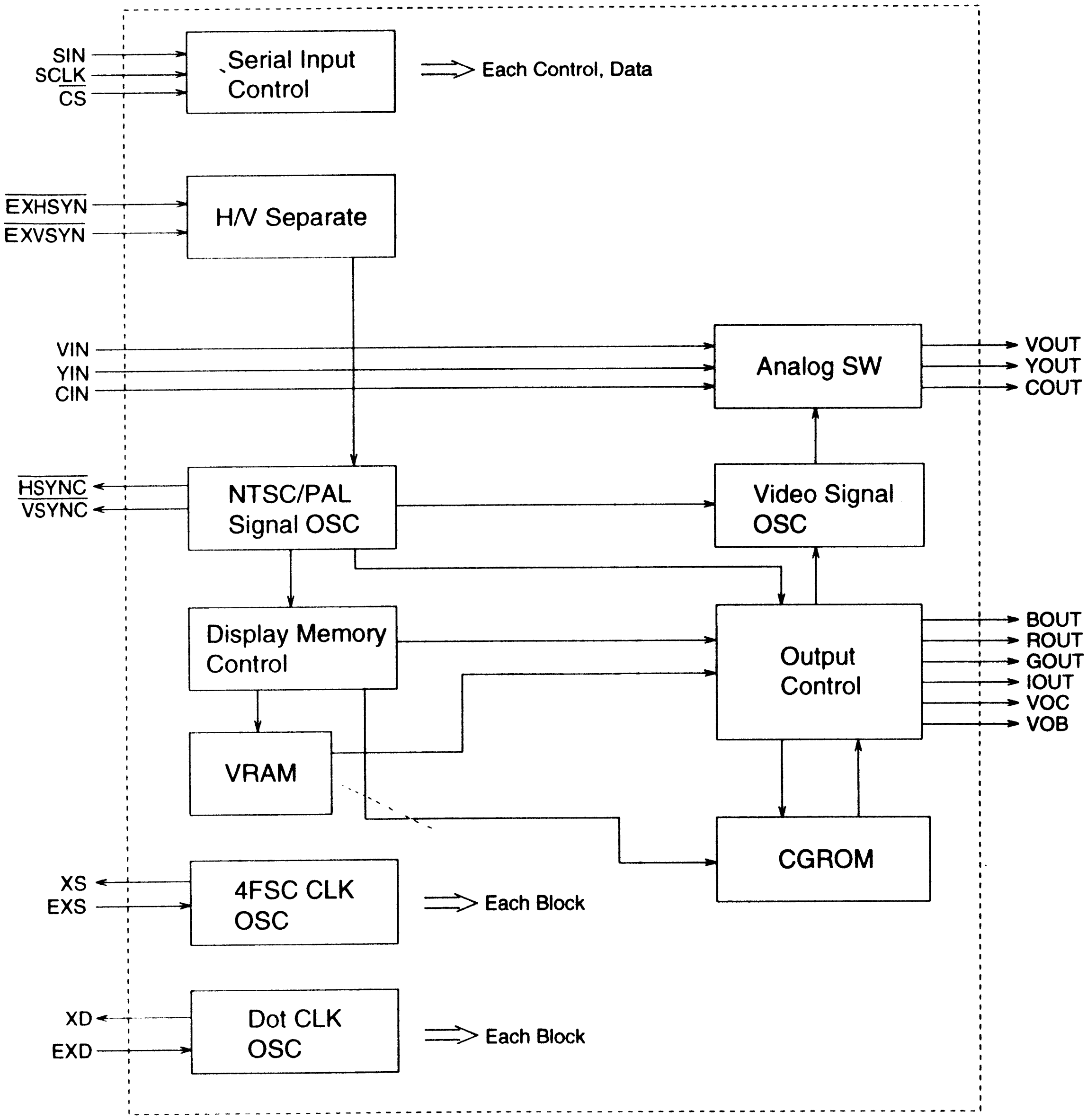
No.	Pin Name	I/O	Function or Equivalent circuit
18	LTRE	-	
25	RTRE		
19	LBASS3	-	 300KΩ (TYP) 1.5KΩ (TYP) 19, 24 20, 23 21, 22
24	RBASS3		
20	LBASS2		
23	RBASS2		
21	LBASS1		
26	RBASS1		
22	CR2	O	 26, 28 12KΩ (TYP)
28	CL2		
27	CR1	I	 27, 29 70KΩ (TYP) 17~24KΩ (TYP) 31, 32
29	CL1		
31	Lout	O	
32	Rout	O	
30	AVSS	-	-7V
37	AGND	-	
38	DGND	-	
39	LATCH	I	 39, 40, 41 Comparator 1/2DVDD
40	DATA	I	
41	CLK	I	
42	DVDD	-	+5V

■ MB90088 (IC203) : On screen display controller

1.Terminal Layout


YIN 1
VIN 2
CIN 3
AVcc 4
IOUT 5
VOC 6
Vcc 7
EXS 8
XS 9
HSYNC 10
VSYNC 11
EXHSYN 12
EXVSYN 13
Vss 14
28 AVss
27 YOUT
26 VOUT
25 COUT
24 CS
23 SIN
22 SCLK
21 TEST
20 BOUT
19 ROUT
18 GOUT
17 VOB
16 XD
15 EXD

2.Block Diagram

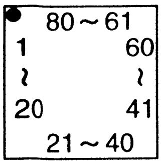

SIN
SCLK
CS
Serial Input Control
Each Control, Data
EXHSYN
EXVSYN
H/V Separate
VIN
YIN
CIN
Analog SW
VOUT
YOUT
COUT
HSYNC
VSYNC
NTSC/PAL Signal OSC
Video Signal OSC
Display Memory Control
Output Control
BOUT
ROUT
GOUT
IOUT
VOC
VOB
VRAM
CGROM
XS
EXS
4FSC CLK OSC
Each Block
XD
EXD
Dot CLK OSC
Each Block

3.Functions

pin no	Symbol	I/O	Function
1	YIN	I	Lux signal Input terminal for Superinpause indication
2	VIN	I	Composite video signal input terminal for Superinpause indication
3	CIN	I	Contrast signal input terminal for Superinpause indication
4	AVcc	-	Analog power supply terminal
5	IOUT	O	Color (Lux) signal output terminal
6	VOC	O	Character output terminal
7	Vcc	-	Power supply terminal
8	EXS	I	Clock generater outside circuit terminal for color burst
9	XS	O	
10	$\overline{\text{HSYNC}}$	O	Horizontal signal output terminal
11	$\overline{\text{VSYNC}}$	O	Vertical signal output terminal
12	$\overline{\text{EXHSYN}}$	I	EXT horizontal signal input terminal
13	$\overline{\text{EXVSYN}}$	I	EXT vertical signal input terminal
14	Vss	-	GND
15	EXD	I	Dot clock generater outside circuit signal terminal for indication
16	XD	O	
17	VOB	O	Character & background signal output terminal
18	GOUT	O	Color signal (Green, Red, Blue)
19	ROUT		
20	BOUT		
21	$\overline{\text{TEST}}$	I	Test signal input terminal
22	SCLK	I	Shift clock input terminal for serial transmission
23	SIN	I	Serial data input terminal
24	$\overline{\text{CS}}$	I	Chip select terminal
25	COUT	O	Contrast signal output terminal
26	VOUT	O	Composite video signal output terminal
27	YOUT	O	Lux signal output terminal
28	AVss	-	Analog GND terminal

■ MN101C15FBC (IC401) : System Control Micon

1. Terminal Layout

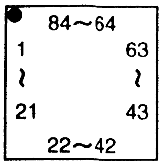


2. Pin Function

Pin No	Symbol	Functions	Pin No	Symbol	Functions
1	GND	Ground	41	VIDEO3	VIDEO 3 signal terminal
2	DVD-S/C	DVD S/C signal select terminal	42	VIDEO4	VIDEO 4 signal terminal
3	VCR1-S/C	VCR1 S/C signal select terminal	43	S.MUTE	Source mute control terminal
4	VIDEO-S/C	VIDEO S/C signal select terminal	44	————	————
5	TV-S/C	TV S/C select terminal	45	DSP-ACK	DSP control signal terminal
6	4/8-IN	4 ohm / 8 ohm select signal terminal	46	DSP-INT	DSP control signal terminal
7	————	————	47	RDS-STATUS	RDS control signal terminal
8	————	————	48	RDS-COMMON	RDS control signal terminal
9	PROTECT	Protect	49	INH-IN	Inhibit signal input terminal
10	GND	Ground	50	DSP-CS	DSP control signal terminal
11	VDD	Power supply	51	DSP-RESET	DSP reset signal terminal
12	OSC2	Oscillation terminal	52	M/CS	Control signal from IC400
13	OSC1	Oscillation terminal	53	M-RESET	Reset signal from IC400
14	Vss	Ground	54	STATUS	Status signal from IC400
15	XI	Ground	55	COMMAND	Command signal from IC400
16	XO	Ground	56	MCLK	Clock signal from IC400
17	GND	Ground	57	SEA-CLK	SEA clock signal from terminal
18	————	Text signal input terminal	58	SEA-DATA	SEA data signal terminal
19	————	Text signal output terminal	59	VL/VH	Connect to power supply board
20	————	Master signal terminal	60	4/8 OUT	4 ohm / 8 ohm select signal terminal
21	DSP-COMMAND	DSP control signal terminal	61	SW-DADTA	Switch data signal terminal
22	DSP-STATUS	DSP control signal terminal	62	SW-CLK	Switch clock signal terminal
23	DSP-CK	DSP control signal terminal	63	VOL-STB	Volume strobo signal terminal
24	GND	Ground	64	VOL-DATA	Volume data signal terminal
25	RESET-IN	Reset signal input terminal	65	VOL-CLK	Volume clock signal terminal
26	TUNER-CE	Tuner chip enable	66	SW-STB	Switch strobo signal terminal
27	TUNER-CLK	Tuner clock signal terminal	67	OTO-LED	OTO LED signal terminal
28	TUNER-STATUS	Tuner control signal terminal	68	————	Dolby LED (Digital)
29	TUNER-COMMAND	Tuner control signal terminal	69	FR-RELAY1	Relay 1 signal terminal
30	TUNER-MUTE	Tuner mute signal terminal	70	FR-RELAY2	Relay 2 signal terminal
31	TUNER-IN	Tuner signal input terminal	71	CNTR-RELAY	Center speaker relay terminal
32	STEREO-IN	Stereo signal input terminal	72	SUR-RELAY	Surround speaker relay terminal
33	RDS-ST	No use	73	HP-RELAY	Head Phone relay terminal
34	M-BUSY	Busy signal from IC400	74	DOLBY (PROLOGIC)	Dolby signal terminal
35	RDS-CLK	No use	75	C.TONE3	Center tone 3 signal terminal
36	OSD-DATA	OSD data signal input terminal	76	C.TONE2	Center tone 2 signal terminal
37	OSD-STB	OSD standby signal terminal	77	C.TONE1	Center tone 1 signal terminal
38	OSD-CLK	OSD clock signal terminal	78	LED-LCK	LED latch clock signal terminal
39	VIDEO1	VIDEO 1 signal terminal	79	LED-DATA	LED data signal terminal
40	VIDEO2	VIDEO 2 signal terminal	80	LED-CLK	LED clock signal terminal

■ MN172412JABZ (IC400) : FL Tube Drive Control Micon

1. Terminal Layout

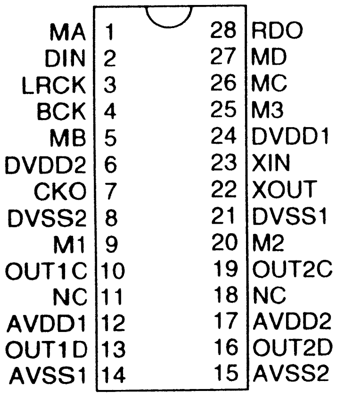


2. Pin Function

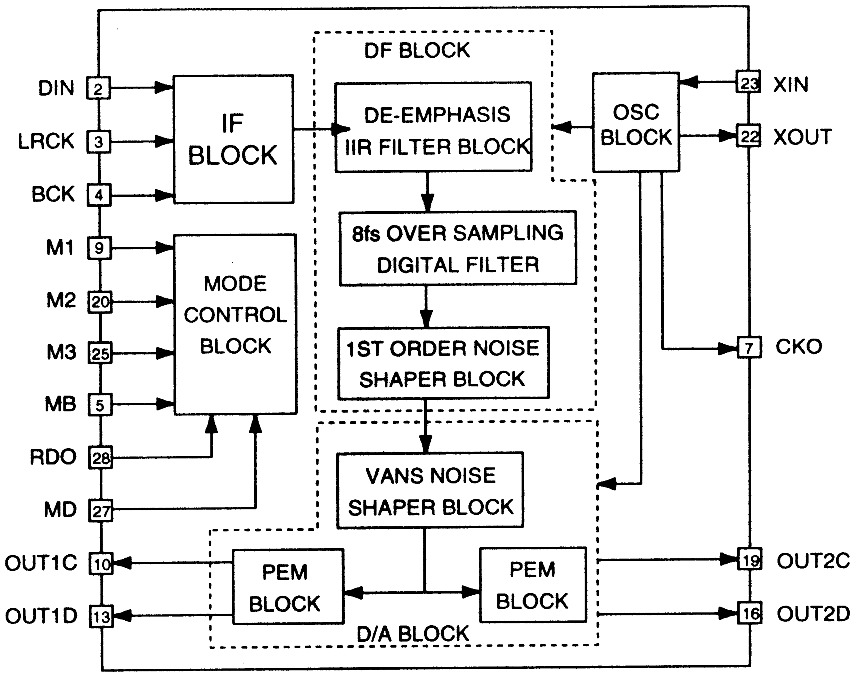
Pin No	Symbol	Functions	Pin No	Symbol	Functions
1	S22	Segment controlsignal output	43	JOG4	Connect to volume
2	S21	Segment controlsignal output	44	MBUSY	Busy signal to IC401
3	S20	Segment controlsignal output	45	MCLK	Clock signal to IC401
4	S19	Segment controlsignal output	46	COMMAND	Command signal to IC401
5	S18	Segment controlsignal output	47	STATUS	Status signal for IC 401
6	S17	Segment controlsignal output	48	CS	Chip signal to IC401
7	S16	Segment controlsignal output	49	RM	Remocon signal terminal
8	S15	Segment controlsignal output	50	VCRI	Compulink signal input
9	S14	Segment controlsignal output	51	DCSI	Compulink signal input
10	S13	Segment controlsignal output	52	DCSO	Compulink signal output
11	S12	Segment controlsignal output	53	VCRO	Compulink signal output
12	S11	Segment controlsignal output	54	TVO	Compulink output
13	S10	Segment controlsignal output	55	TVC	Compulink control output
14	S9	Segment controlsignal output	56	JOG5	Connect to mullti jog
15	S8	Segment controlsignal output	57	JOG6	Connect to mullti jog
16	S7	Segment controlsignal output	58	POWER	From power supply
17	S6	Segment controlsignal output	59	STANDBY	Standby signal terminal
18	S5	Segment controlsignal output	60	KI3	Key matrix input
19	S4	Segment controlsignal output	61	KI2	Key matrix input
20	S3	Segment controlsignal output	62	KI1	Key matrix input
21	S2	Segment controlsignal output	63	KI0	Key matrix input
22	S1	Segment controlsignal output	64	S36	Segment controlsignal output
23	VPP	Powe supply fot FL display	65	S35	Segment controlsignal output
24	G14	Grid control signal output	66	S34	Segment controlsignal output
25	G13	Grid controlsignal output	67	S33	Segment controlsignal output
26	G12	Grid controlsignal output	68	RST	Reset signal input
27	G11	Grid controlsignal output	69	X1	Connect to ground
28	G10	Grid controlsignal output	70	X2	No use
29	G9	Grid controlsignal output	71	VSS	Connect to ground
30	G8	Grid controlsignal output	72	OSC2	Oscillation terminal
31	G7	Grid controlsignal output	73	OSC1	Osillation terminal
32	G6	Grid controlsignal output	74	VDD	Power supply
33	G5	Grid controlsignal output	75	S32	Segment controlsignal output
34	G4	Grid controlsignal output	76	S31	Segment controlsignal output
35	G3	Grid controlsignal output	77	S30	Segment controlsignal output
36	G2	Grid controlsignal output	78	S29	Segment controlsignal output
37	—	Connect to Q408	79	S28	Segment controlsignal output
38	—	Connect to Q407	80	S27	Segment controlsignal output
39	G1	Grid controlsignal output	81	S26	Segment controlsignal output
40	JOG1	Connect to source selector	82	S25	Segment controlsignal output
41	JOG2	Connect to source selector	83	S24	Segment controlsignal output
42	JOG3	Connect to volume	84	S23	Segment controlsignal output

■ MN35503-X (IC621/IC631/IC641) : D/A CONVERTER

1.Terminal Layout


MA 1
DIN 2
LRCK 3
BCK 4
MB 5
DVDD2 6
CKO 7
DVSS2 8
M1 9
OUT1C 10
NC 11
AVDD1 12
OUT1D 13
AVSS1 14
28 RDO
27 MD
26 MC
25 M3
24 DVDD1
23 XIN
22 XOUT
21 DVSS1
20 M2
19 OUT2C
18 NC
17 AVDD2
16 OUT2D
15 AVSS2

2.Block Diagrams

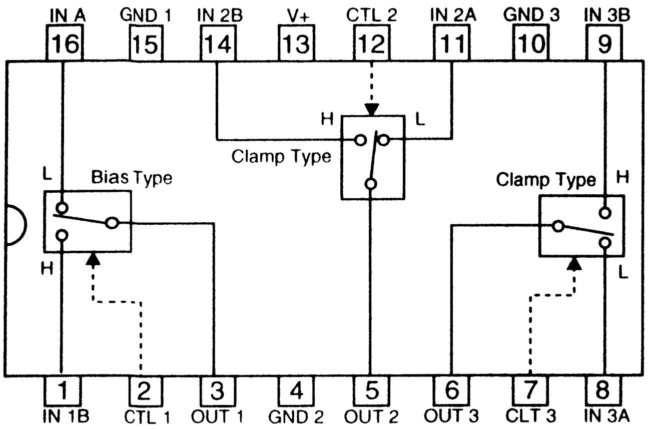

DIN 2
LRCK 3
BCK 4
M1 9
M2 20
M3 25
MB 5
RDO 28
MD 27
OUT1C 10
OUT1D 13
IF BLOCK
MODE CONTROL BLOCK
DF BLOCK
DE-EMPHASIS IIR FILTER BLOCK
8fs OVER SAMPLING DIGITAL FILTER
1ST ORDER NOISE SHAPER BLOCK
VANS NOISE SHAPER BLOCK
PEM BLOCK
PEM BLOCK
D/A BLOCK
OSC BLOCK
23 XIN
22 XOUT
7 CKO
19 OUT2C
16 OUT2D

3.Pin Function

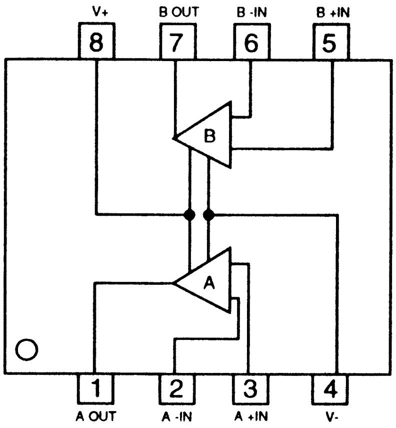
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	MA	-	Connected to ground	15	AVSS2	-	Analog ground 2
2	DIN	I	Data input	16	OUT2D	O	2D PEM output
3	LRCK	I	L/R clock input	17	AVDD2	-	Analog power supply 2
4	BCK	I	Bit clock input	18	NC	-	Non connection
5	MB	I	De-emphasis ON signal	19	OUT2C	O	2C PEM output
6	DVDD2	-	Digital power supply2	20	M2	-	Connected to ground
7	CKO	I	Clock output	21	DVSS1	-	Digital ground pin 1
8	DVSS2	-	Digital ground 2	22	XOUT	O	Crystal oscillator output
9	M1	-	Connected to ground	23	XIN	I	Crystal oscillator input
10	OUT1C	O	1C PEM output	24	DVDD1	-	Digital power supply 1
11	NC	-	Non connect	25	M3	-	Connected to ground
12	AVDD1	-	Analog power supply 1	26	MC	-	Connected to ground
13	OUT1D	O	1d PEM output	27	MD	I	Reset signal/Digital Att.control signal input
14	AVSS1	-	Analog ground 1	28	RDO	-	Not used

■ NJM2285D (IC202) : Video switch

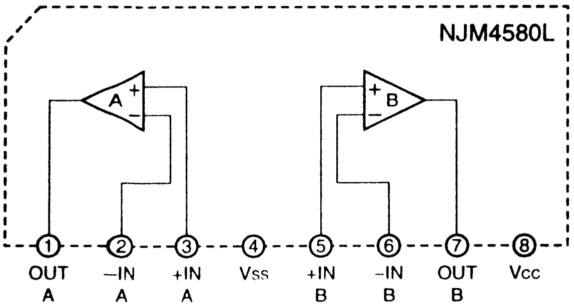
1.Terminal Layout & Blick Diagram


IN A
GND 1
IN 2B
V+
CTL 2
IN 2A
GND 3
IN 3B
16
15
14
13
12
11
10
9
H
L
Clamp Type
L
Bias Type
Clamp Type
H
H
L
1
2
3
4
5
6
7
8
IN 1B
CTL 1
OUT 1
GND 2
OUT 2
OUT 3
CLT 3
IN 3A

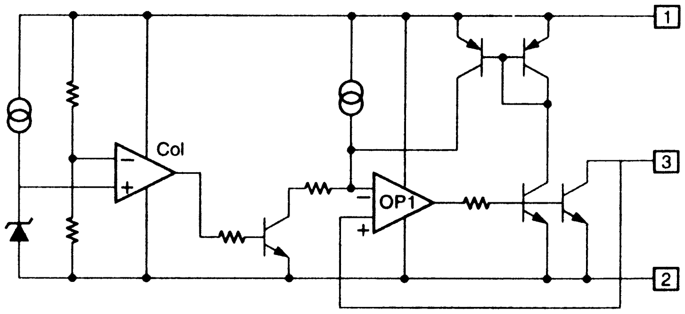
■ NJM4580D-D (IC301) : Dual Ope. Amp


V+
B OUT
B -IN
B +IN
8
7
6
5
B
A
1
2
3
4
A OUT
A -IN
A +IN
V-

■ NJM4580L (IC302/IC303/IC305/IC361) Dual operation amp.

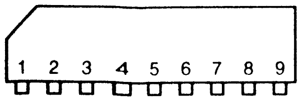

NJM4580L
A
B
①
②
③
④
⑤
⑥
⑦
⑧
OUT A
−IN A
+IN A
Vss
+IN B
−IN B
OUT B
Vcc

■ PST600E (IC403) : Reset IC

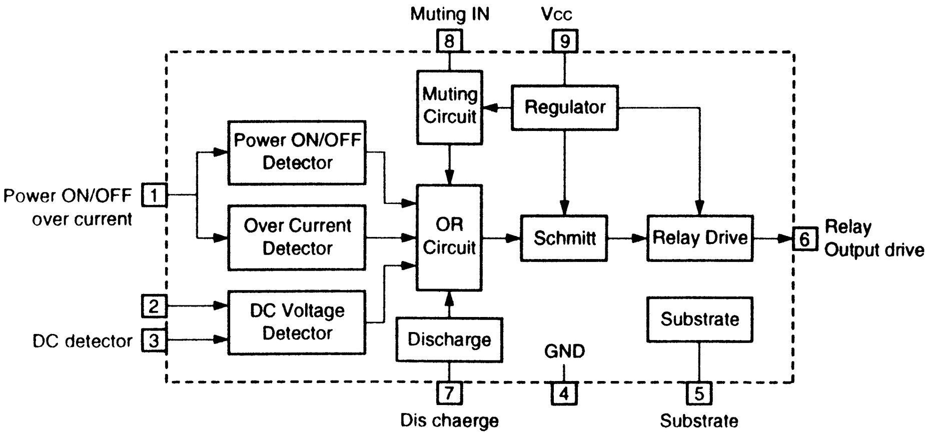


■ TA7317P (IC901) : Protecter

1.Terminal layout

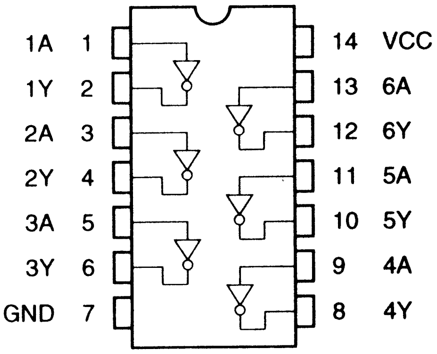


2.Block diabram


Muting IN
Vcc
8
9
Muting Circuit
Regulator
Power ON/OFF Detector
Power ON/OFF over current
1
Over Current Detector
OR Circuit
Schmitt
Relay Drive
6
Relay Output drive
2
DC Voltage Detector
DC detector
3
Discharge
GND
Substrate
7
4
5
Dis chaerge
Substrate

■ TC74HCT04AF (IC652): Inverter

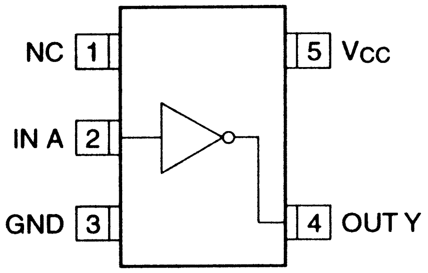
1. Terminal Layout


1A 1
1Y 2
2A 3
2Y 4
3A 5
3Y 6
GND 7
14 VCC
13 6A
12 6Y
11 5A
10 5Y
9 4A
8 4Y

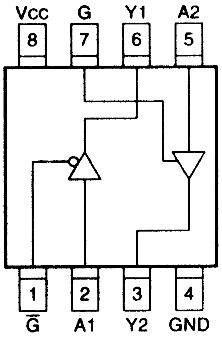
(TOP VIEW)

A	Y
L	H
H	L

■ TC7S04FU (IC502, IC503): Inverter

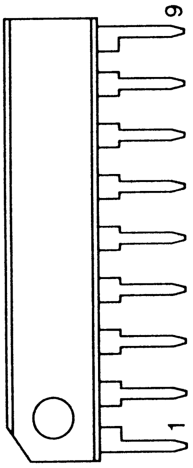

NC 1
IN A 2
GND 3
5 Vcc
4 OUT Y

■ TC7WH241FU (IC504): Dual bus buffer

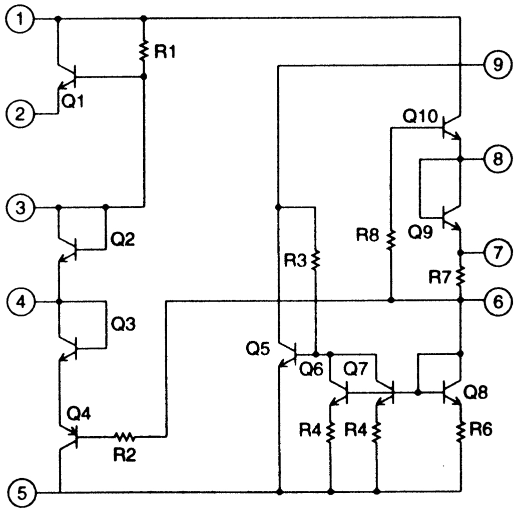

Vcc 8
G 7
Y1 6
A2 5
1 $\overline{G}$
2 A1
3 Y2
4 GND

■ VC5022-2 (IC781/IC782) : Super A

1. Terminal Layout



2. Block diagram


①
②
③
④
⑤
⑥
⑦
⑧
⑨
R1
Q1
Q2
Q3
Q4
R2
Q5
Q6
Q7
Q8
Q9
Q10
R3
R4
R4
R6
R7
R8

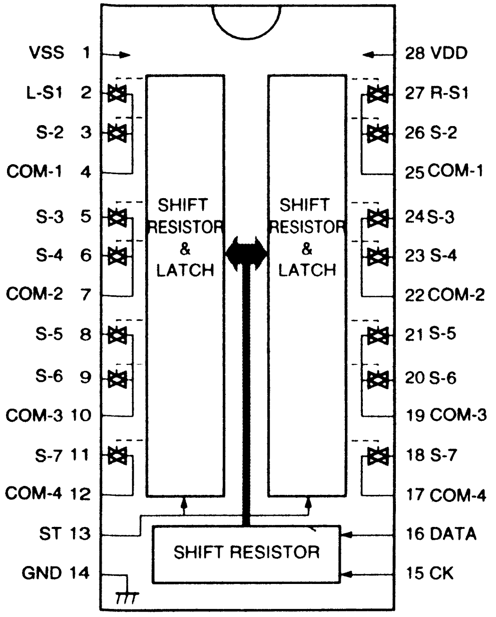
■ TC9162AN (IC321),TC9163AN (IC311), TC9164AN (IC304): Analog switch

1.Function

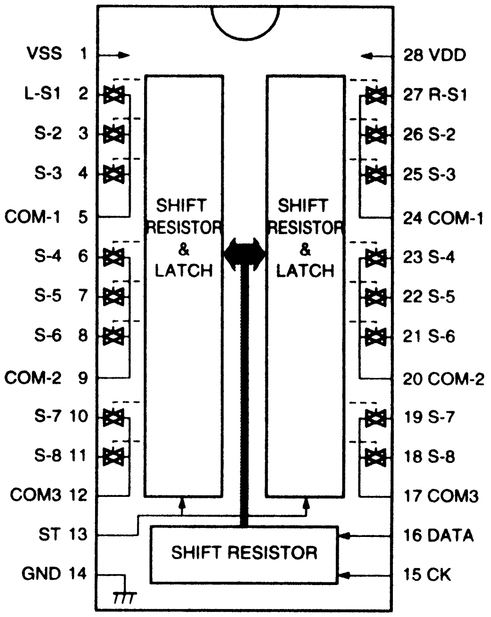
Switch to On/Off of S1 to S8 by control of LSI.

2.Terminal Lay out & Block Diagram

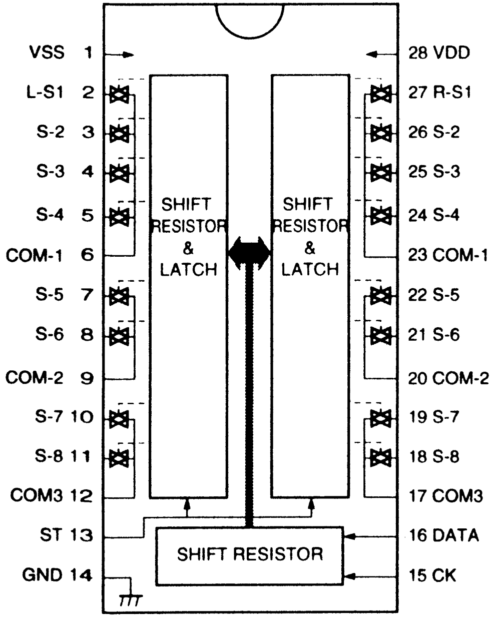
TC9162N


VSS 1
L-S1 2
S-2 3
COM-1 4
S-3 5
S-4 6
COM-2 7
S-5 8
S-6 9
COM-3 10
S-7 11
COM-4 12
ST 13
GND 14
28 VDD
27 R-S1
26 S-2
25 COM-1
24 S-3
23 S-4
22 COM-2
21 S-5
20 S-6
19 COM-3
18 S-7
17 COM-4
16 DATA
15 CK
SHIFT RESISTOR & LATCH
SHIFT RESISTOR & LATCH
SHIFT RESISTOR

TC9163AN


VSS 1
L-S1 2
S-2 3
S-3 4
COM-1 5
S-4 6
S-5 7
S-6 8
COM-2 9
S-7 10
S-8 11
COM3 12
ST 13
GND 14
28 VDD
27 R-S1
26 S-2
25 S-3
24 COM-1
23 S-4
22 S-5
21 S-6
20 COM-2
19 S-7
18 S-8
17 COM3
16 DATA
15 CK
SHIFT RESISTOR & LATCH
SHIFT RESISTOR & LATCH
SHIFT RESISTOR

TC9164AN


VSS 1
L-S1 2
S-2 3
S-3 4
S-4 5
COM-1 6
S-5 7
S-6 8
COM-2 9
S-7 10
S-8 11
COM3 12
ST 13
GND 14
28 VDD
27 R-S1
26 S-2
25 S-3
24 S-4
23 COM-1
22 S-5
21 S-6
20 COM-2
19 S-7
18 S-8
17 COM3
16 DATA
15 CK
SHIFT RESISTOR & LATCH
SHIFT RESISTOR & LATCH
SHIFT RESISTOR

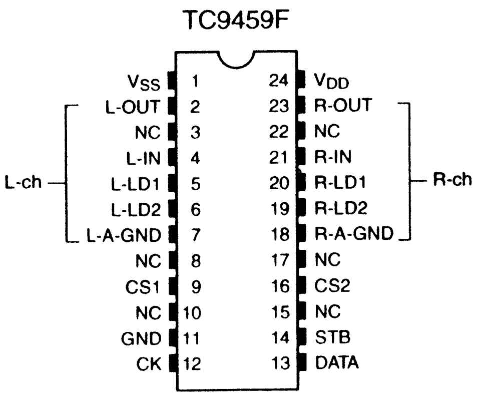
3.Corespondance of Switch & Data

S1 ~ S8 are "1" position to ON by bit1 ~ 8 of Serial Data.
S9 is Right, S10 is Left Switch to ON/OFF. TC9162,TC9163 and TC9164 are select by bit11 ~ 14.

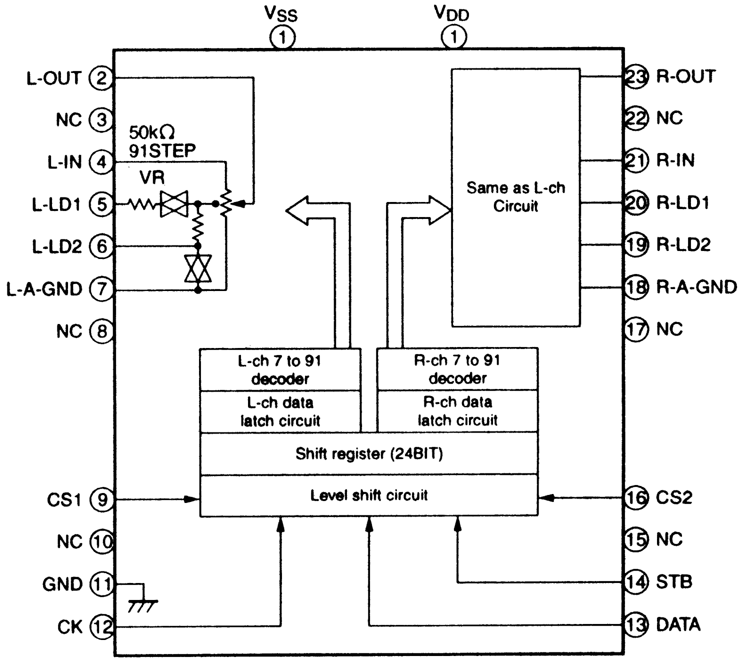
	Switch Select bit								Right	Left	Switch Select bit			
	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	S13	S14
TC9162N	S1 ~ S8 are "0" position to ON by bit1 ~ 8 of Serial Data.										0	0	0	0
TC9163N	S1 ~ S8 are "1" position to ON by bit1 ~ 8 of Serial Data.										1	0	0	0
TC9164N	S1 ~ S8 are "1" position to ON by bit1 ~ 8 of Serial Data.										0	1	0	0

■ TC9459N/F (IC331, IC332, IC333) : Volume Control

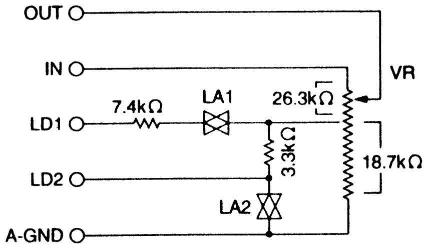
1. Pin Layout


TC9459F
VSS 1
L-OUT 2
NC 3
L-IN 4
L-LD1 5
L-LD2 6
L-A-GND 7
NC 8
CS1 9
NC 10
GND 11
CK 12
24 VDD
23 R-OUT
22 NC
21 R-IN
20 R-LD1
19 R-LD2
18 R-A-GND
17 NC
16 CS2
15 NC
14 STB
13 DATA
L-ch
R-ch

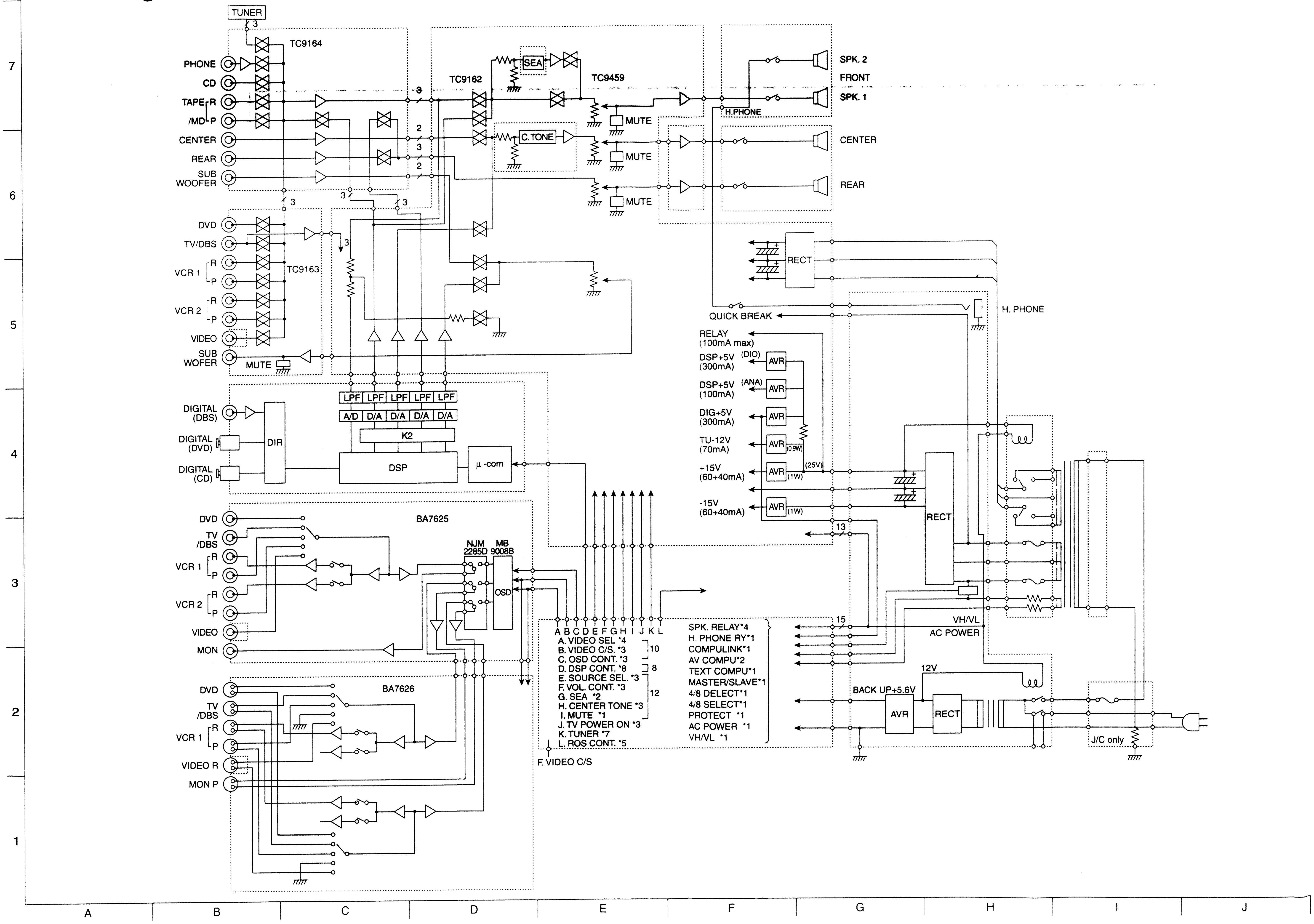
2. Block diagram


VSS ①
VDD ①
L-OUT ②
NC ③
L-IN ④
L-LD1 ⑤
L-LD2 ⑥
L-A-GND ⑦
NC ⑧
50kΩ
91STEP
VR
Same as L-ch Circuit
L-ch 7 to 91 decoder
R-ch 7 to 91 decoder
L-ch data latch circuit
R-ch data latch circuit
Shift register (24BIT)
Level shift circuit
CS1 ⑨
NC ⑩
GND ⑪
CK ⑫
㉓ R-OUT
㉒ NC
㉑ R-IN
⑳ R-LD1
⑲ R-LD2
⑱ R-A-GND
⑰ NC
⑯ CS2
⑮ NC
⑭ STB
⑬ DATA

3. Pin Function

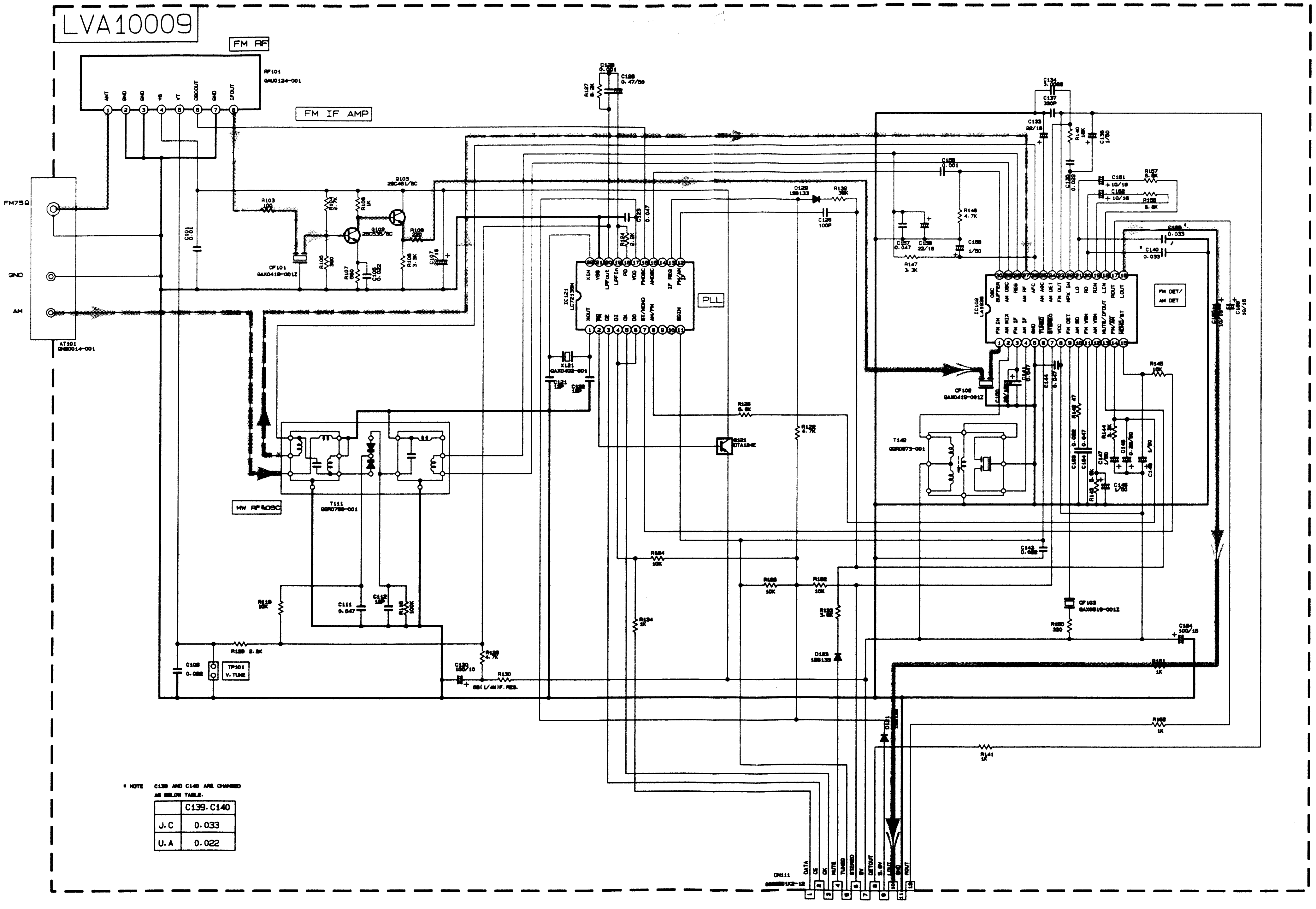
<table>
<tr><th>No.</th><th>Pin Name</th><th>I/O</th><th>Function</th></tr>
<tr><td>1</td><td>V_{SS}</td><td>–</td><td rowspan="3">When using dual power supplies: V_{DD} = 6.0～17V
GND = 0V
V_{SS}= -6.0～-17V
When using single power supplies: V_{DD} = 6.0～18V
GND = V_{SS} = 0V</td></tr>
<tr><td>11</td><td>GND</td><td>–</td></tr>
<tr><td>24</td><td>V_{DD}</td><td>–</td></tr>
<tr><td>2</td><td>L-OUT</td><td>O</td><td rowspan="10">● Volume circuit

OUT
IN
VR
LD1
7.4kΩ
LA1
26.3kΩ
3.3kΩ
18.7kΩ
LD2
LA2
A-GND
<table>
<tr><th></th><th>LA1</th><th>LA2</th></tr>
<tr><td>LOUDNESS "ON"</td><td>ON</td><td>OFF</td></tr>
<tr><td>LOUDNESS "OFF"</td><td>OFF</td><td>ON</td></tr>
</table></td></tr>
<tr><td>4</td><td>L-IN</td><td>I</td></tr>
<tr><td>5</td><td>L-LD1</td><td>O</td></tr>
<tr><td>6</td><td>L-LD2</td><td>O</td></tr>
<tr><td>7</td><td>L-A-GND</td><td>–</td></tr>
<tr><td>18</td><td>R-A-GND</td><td>–</td></tr>
<tr><td>19</td><td>R-LD2</td><td>O</td></tr>
<tr><td>20</td><td>R-LD1</td><td>O</td></tr>
<tr><td>21</td><td>R-IN</td><td>I</td></tr>
<tr><td>23</td><td>R-OUT</td><td>O</td></tr>
<tr><td>9</td><td>CS1</td><td>I</td><td rowspan="2">Up to 4 chips on the same bus can be used by switching over chip select code.</td></tr>
<tr><td>16</td><td>CS2</td><td>I</td></tr>
<tr><td>12</td><td>CK</td><td>I</td><td>Data transfer clock input</td></tr>
<tr><td>13</td><td>DATA</td><td>I</td><td>Volume setup serial data input</td></tr>
<tr><td>14</td><td>STB</td><td>I</td><td>Data write strobe input</td></tr>
<tr><td>3</td><td rowspan="6">NC</td><td rowspan="6">–</td><td rowspan="6">–</td></tr>
<tr><td>8</td></tr>
<tr><td>10</td></tr>
<tr><td>15</td></tr>
<tr><td>17</td></tr>
<tr><td>22</td></tr>
</table>

Block diagram


TUNER
TC9164
PHONE
CD
TAPE R
/MD P
CENTER
REAR
SUB WOOFER
TC9162
SEA
TC9459
C. TONE
MUTE
MUTE
MUTE
SPK. 2
FRONT
SPK. 1
H.PHONE
CENTER
REAR
DVD
TV/DBS
VCR 1 R
P
VCR 2 R
P
VIDEO
SUB WOFER
MUTE
TC9163
RECT
QUICK BREAK
H. PHONE
RELAY (100mA max)
DSP+5V (DIO) (300mA)
DSP+5V (ANA) (100mA)
DIG+5V (300mA)
TU-12V (70mA)
+15V (60+40mA)
-15V (60+40mA)
AVR
(0.9W)
(1W)
(25V)
13
RECT
LPF LPF LPF LPF LPF
A/D D/A D/A D/A D/A
K2
DSP
μ -com
DIGITAL (DBS)
DIGITAL (DVD)
DIGITAL (CD)
DIR
BA7625
DVD
TV /DBS
VCR 1 R
P
VCR 2 R
P
VIDEO
MON
NJM 2285D
MB 9008B
OSD
A B C D E F G H I J K L
A. VIDEO SEL *4
B. VIDEO C/S. *3
C. OSD CONT. *3
D. DSP CONT. *8
E. SOURCE SEL. *3
F. VOL. CONT. *3
G. SEA *2
H. CENTER TONE *3
I. MUTE *1
J. TV POWER ON *3
K. TUNER *7
L. ROS CONT. *5
10
8
12
F. VIDEO C/S
SPK. RELAY*4
H. PHONE RY*1
COMPULINK*1
AV COMPU*2
TEXT COMPU*1
MASTER/SLAVE*1
4/8 DELECT*1
4/8 SELECT*1
PROTECT *1
AC POWER *1
VH/VL *1
15
VH/VL
AC POWER
12V
BACK UP+5.6V
AVR
RECT
J/C only
BA7626
DVD
TV /DBS
VCR 1 R
P
VIDEO R
MON P
7
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J

Standard schematic diagrams

■ Tuner circuit (C/J/U version)


LVA10009
FM RF
RF101
QAU0124-001
ANT
GND
GND
+B
VT
OSCOUT
GND
IFOUT
FM IF AMP
FM75Ω
GND
AM
AT101
QNB0014-001
C101 0.01
R103 100
R104 2.7K
R106 1K
Q103 2SC461/BC
Q102 2SC535/BC
R109 220
R105 390
R107 680
C105 0.022
R108 3.3K
C107 22/16
CF101
QAX0419-001Z
IC121
LC72131N
XIN
VSS
LPFout
LPFin
PD
VDD
FMOSC
AMOSC
IF REQ
FM/AM IF
XOUT
CE
DI
CK
DO
ST/MONO
AM/FM
SDIN
PLL
R124 2.2K
C123 0.047
X121
QAX0402-001
C121
C122
IC102
LA1836
OSC BUFFER
AM OSC
REG
AM RF
AFC
AM AGC
AM DET
FM OUT
MPX IN
LO
RO
RIN
LIN
ROUT
LOUT
FM IN
AM MIX
FM IF
AM IF
GND
TUNED
STEREO
VCC
FM DET
AM SD
FM VSM
AM VSM
MUTE/IFOUT
FM/AM
MONO/ST
FM DET/
AM DET
R146 4.7K
C166 1/50
C139 0.033
C140 0.033
R145 10K
C141 0.047
C144 0.047
R142 47
CF102
QAX0419-001Z
T142
MW RF&OSC
T111
D121
D123
Q121 DTA124E
TP101
V.TUNE
CN111
DATA
CE
CK
MUTE
TUNED
STEREO
5V
DETOUT
8.8V
LOUT
GND
ROUT
1
2
3
4
5
6
7
8
9
10
11
12
TO CN121

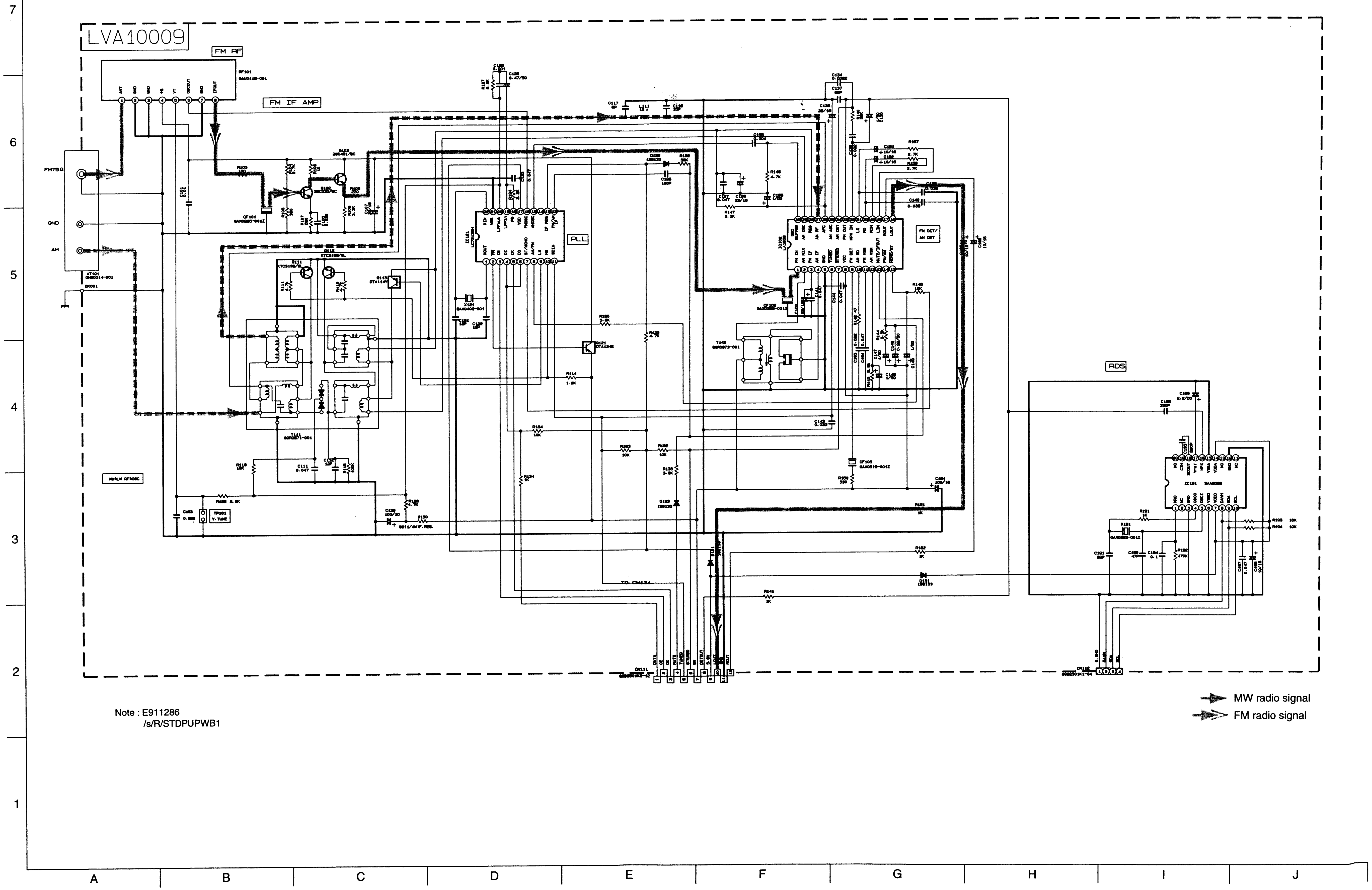
* NOTE C139 AND C140 ARE CHANGED AS BELOW TABLE.

	C139.C140
J.C	0.033
U.A	0.022

Note : E911286
/s/R/STDTUPWB3

—► AM radio signal
—▷ FM radio signal

■ Tuner circuit (B/E/EN version)

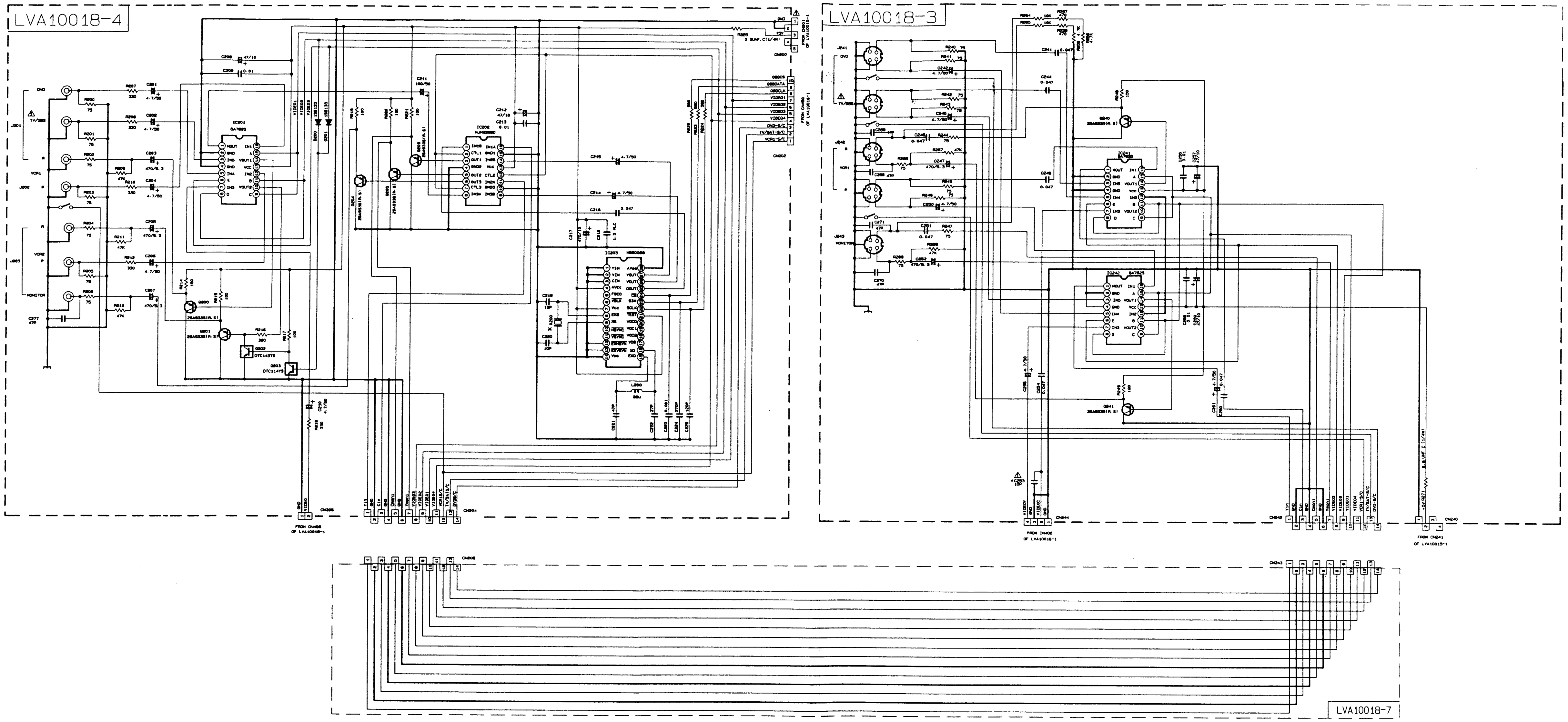

LVA10009
FM RF
RF101
GAU0119-001
ANT
GND
GND
+B
VT
OSCOUT
GND
IFOUT
FM IF AMP
FM75Ω
GND
AM
Q103
2SC461/BC
R103
CF101
Q111
Q112
Q113
T111
IC121
LC72136N
XIN
VSS
LPFout
LPFin
PD
VDD
FMOSC
AMOSC
IF REQ
FM/AM IF
XOUT
TR
CE
DI
CK
DO
ST/MONO
AM/FM
LW
MW
SDIN
PLL
X121
GAX0402-001
C121
C122
R124
2.2K
R125
5.6K
Q121
R114
IC102
LA1838
OSC BUFFER
AM OSC
REG
AM RF
AFC
AM AGC
AM DET
FM OUT
MPX IN
LO
RO
RIN
LIN
ROUT
LOUT
FM IN
AM MIX
FM IF
AM IF
GND
TUNED
STEREO
VCC
FM DET
AM SD
FM VSM
AM VSM
MUTE/IFOUT
FM/AM
MONO/ST
FM DET/
AM DET
CF102
C141
0.047
C144
0.047
R143 47
R145
10K
R146
4.7K
C139
C140
0.039
C152
10/16
R158
2.7K
T142
CF103
TO CN434
RDS
IC191
SAA6588
NC
CIN
SCOUT
Vref
MPX
VSSA
VDDA
GND
MRO
OSCO
OSCI
VSSD
VDDD
DAVN
SDA
SCL
C195
330P
C196
2.2/50
C193
560P
R191
1K
X191
GAX0283-001Z
C191
82P
C192
47P
C194
0.1
R192
470K
C197
0.047
C198
10/16
R193
10K
R194
10K
CN111
DATA
CE
CK
MUTE
TUNED
STEREO
8V
DETOUT
8.9V
LOUT
GND
ROUT
CN112
D.GND
DAVN
SDA
SCL
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7

Note : E911286
/s/R/STDPUPWB1

MW radio signal

FM radio signal

■ Video signal selector circuit

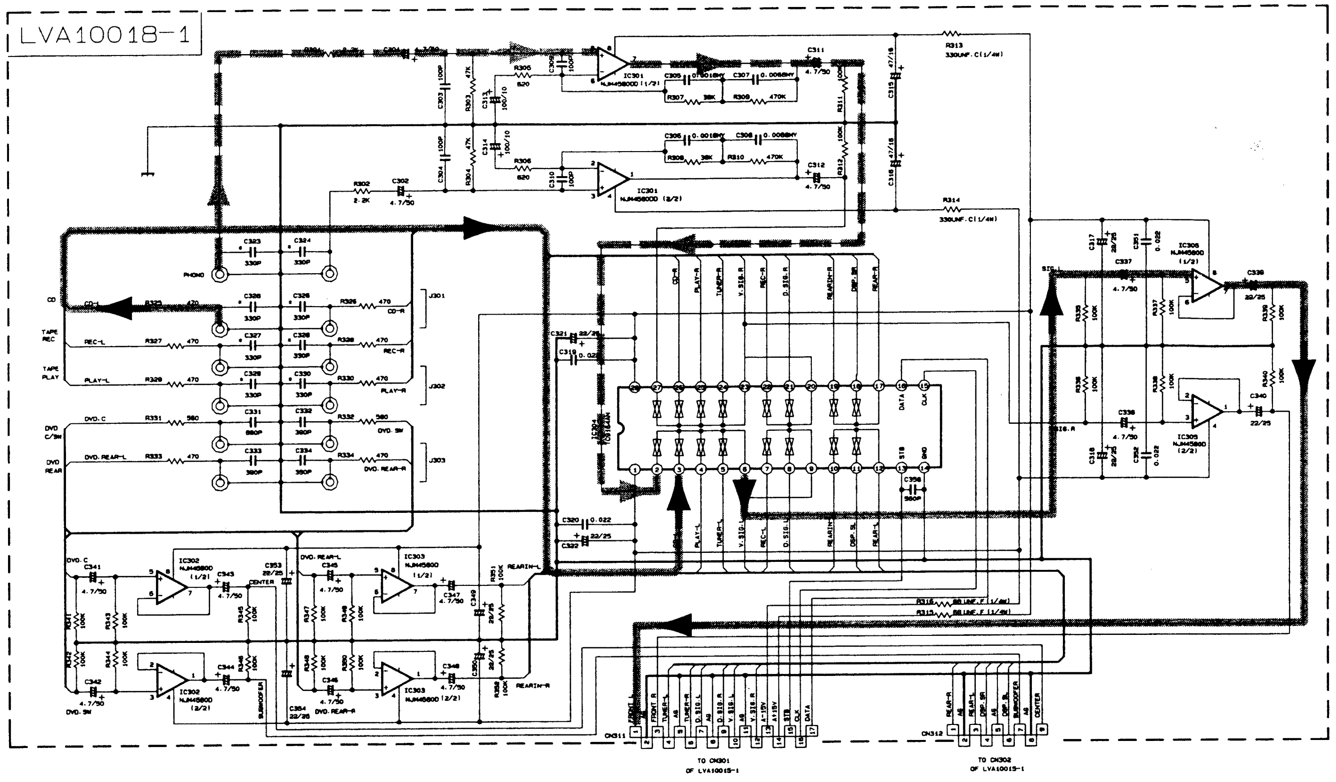

LVA10018-4
LVA10018-3
LVA10018-7
IC201 BA7625
IC202 NJM2285D
IC203
IC241 BA7625
IC242 BA7625
CN204
CN206
CN208
CN241
CN242
CN243
CN244
DVD
TV/DBS
VCR1
VCR2
MONITOR
J201
J202
J203
J241
J242
J243
FROM CN408 OF LVA10018-1
FROM CN241 OF LVA10018-1

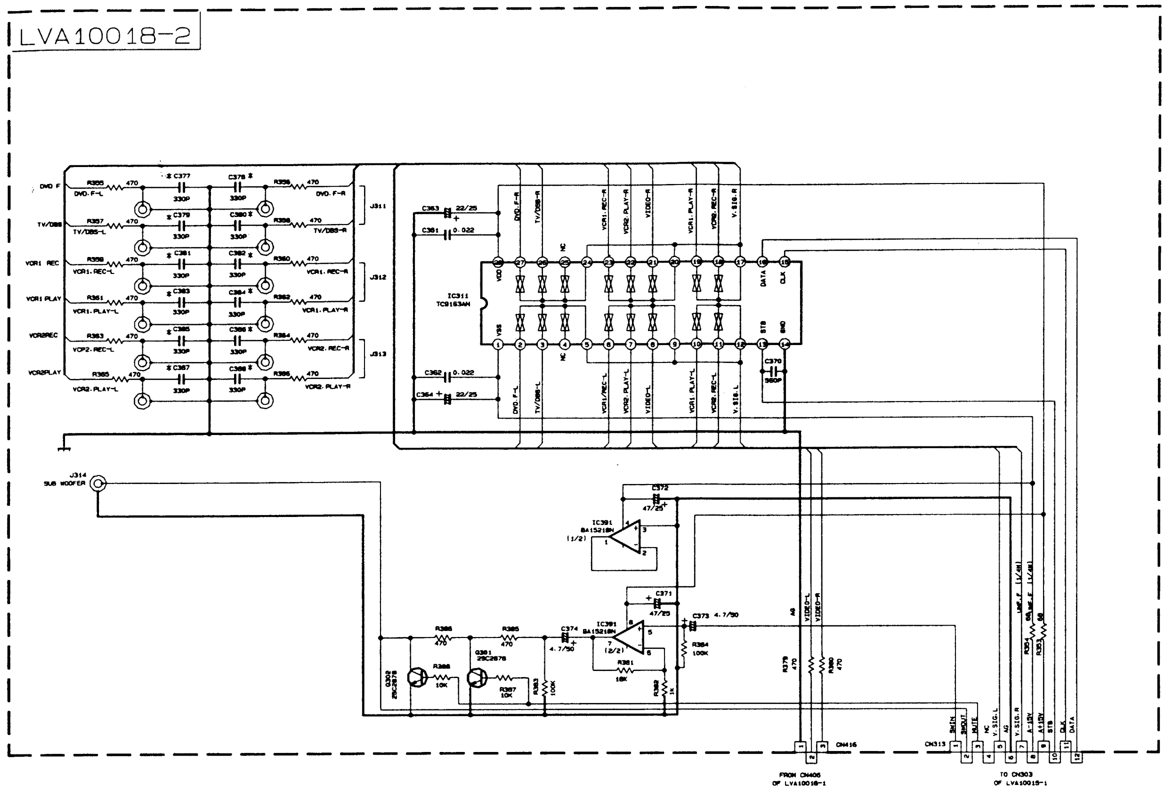
*MARK LIST

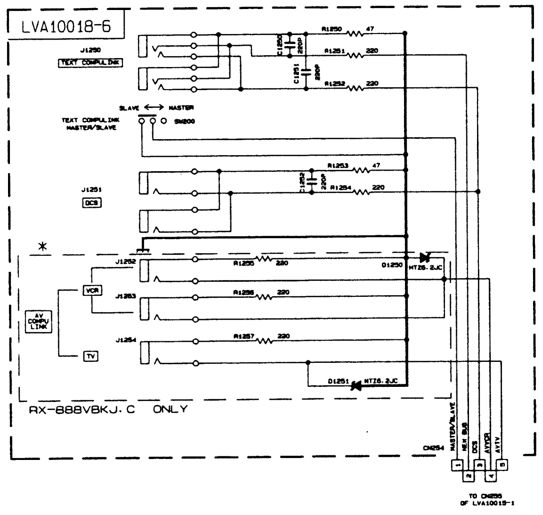
	RX-888VBK J. C	RX-888PBK UF	RX-888RBK B. E. EN	RX-889VGD UT	RX-889PGD UB. UF. US
X200	QAX0260-001Z	QAX0261-001Z	QAX0261-001Z	QAX0260-001Z	QAX0261-001Z
C253	NONE	USED	USED	USED	USED

Note : LVB10010
lva10018b

■ Audio signal selector circuit


LVA10018-1
IC301 NJM4580D (1/2)
IC301 NJM4580D (2/2)
IC302 NJM4580D (1/2)
IC302 NJM4580D (2/2)
IC303 NJM4580D (1/2)
IC303 NJM4580D (2/2)
IC306 NJM4580D (1/2)
IC306 NJM4580D (2/2)
PHONO
CD
TAPE REC
TAPE PLAY
DVD C/SW
DVD REAR
J301
J302
J303
CN311
TO CN301 OF LVA10018-1
CN312
TO CN302 OF LVA10018-1


LVA10018-2
DVD F
TV/DBS
VCR1 REC
VCR1 PLAY
VCR2REC
VCR2PLAY
J311
J312
J313
IC311 TC9163AN
J314 SUB WOOFER
IC391 BA15218N (1/2)
IC391 BA15218N (2/2)
CN416
FROM CN406 OF LVA10018-1
CN313
TO CN303 OF LVA10018-1


LVA10018-6
J1250
TEXT COMPULINK
R1250 47
R1251 220
R1252 220
C1250 220P
C1251 220P
SLAVE ⟷ MASTER
TEXT COMPULINK MASTER/SLAVE
SW200
J1251
DCS
R1253 47
R1254 220
C1252 220P
*
J1252
J1253
J1254
AV COMPU LINK
VCR
TV
R1255 220
R1256 220
R1257 220
D1250 MTZ6.2JC
D1251 MTZ6.2JC
RX-888VBKJ.C ONLY
CN254
MASTER/SLAVE
NEW BUS
DCS
AVVCR
AVTV
1
2
3
4
5
TO CN256 OF LVA10018-1

* MARK LIST

	J	C	B.E.EN	UB.UF.US.UT
C323–C330	NONE	NONE	USED	⚠USED
C377–C388	NONE	NONE	USED	⚠USED

⬚ RX-888VBKJ.C ONLY

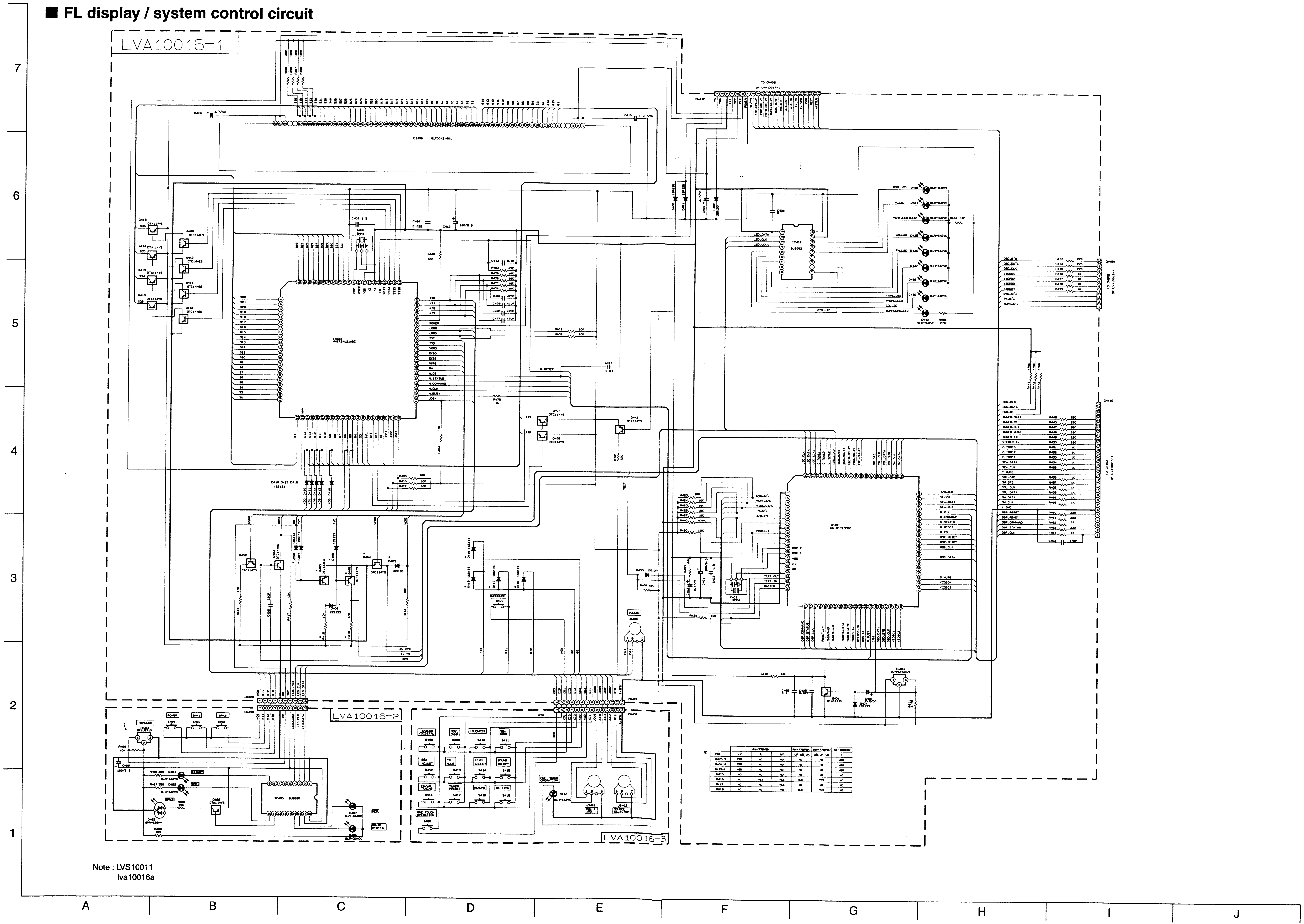
Note : LVS10010
lva10018a

➡ CD signal line
➡ Phono signal line

7
6
5
4
3
2
1

A B C D E F G H I J

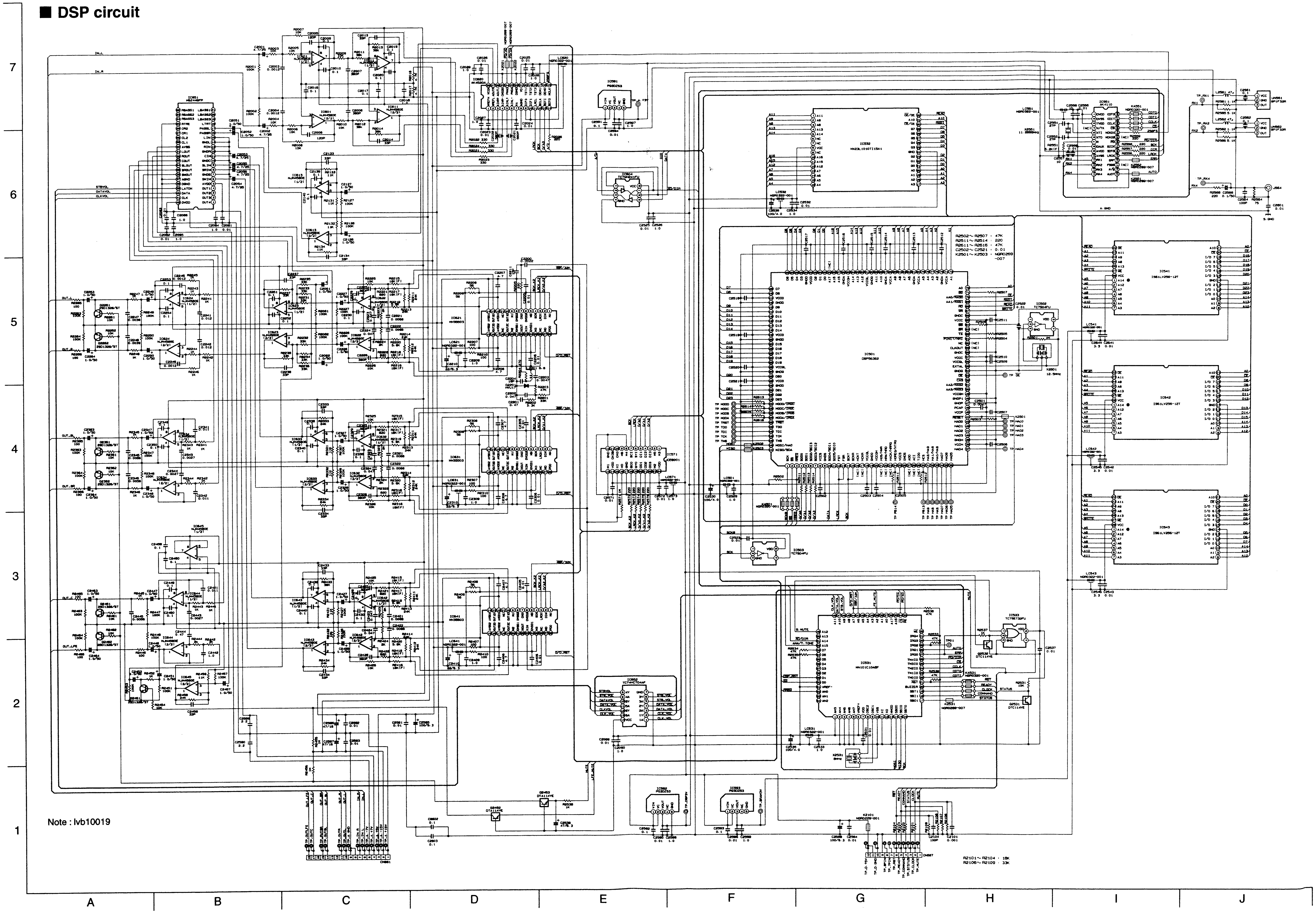
■ FL display / system control circuit


LVA10016-1
LVA10016-2
LVA10016-3
DI400 9LF0042-001
IC400
IC401
IC402 BU2092
IC403
IC405 BU2092
CN402
CN412
CN420
CN430
CN432
CN450
CN460
VOLUME
7
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J

	RX-778VBK			RX-778PBK	RX-778PGD	RX-780VBK
VER.	J.C	U	UY	UF. US. UX	US. UF. US	C
D405-9	YES	NO	NO	NO	NO	YES
D404-6	YES	NO	NO	NO	NO	YES
R419-6	YES	NO	NO	NO	NO	YES
D415	NO	NO	NO	NO	NO	NO
D416	NO	YES	YES	YES	YES	NO
D417	NO	NO	YES	NO	NO	NO
D419	NO	NO	NO	YES	YES	NO

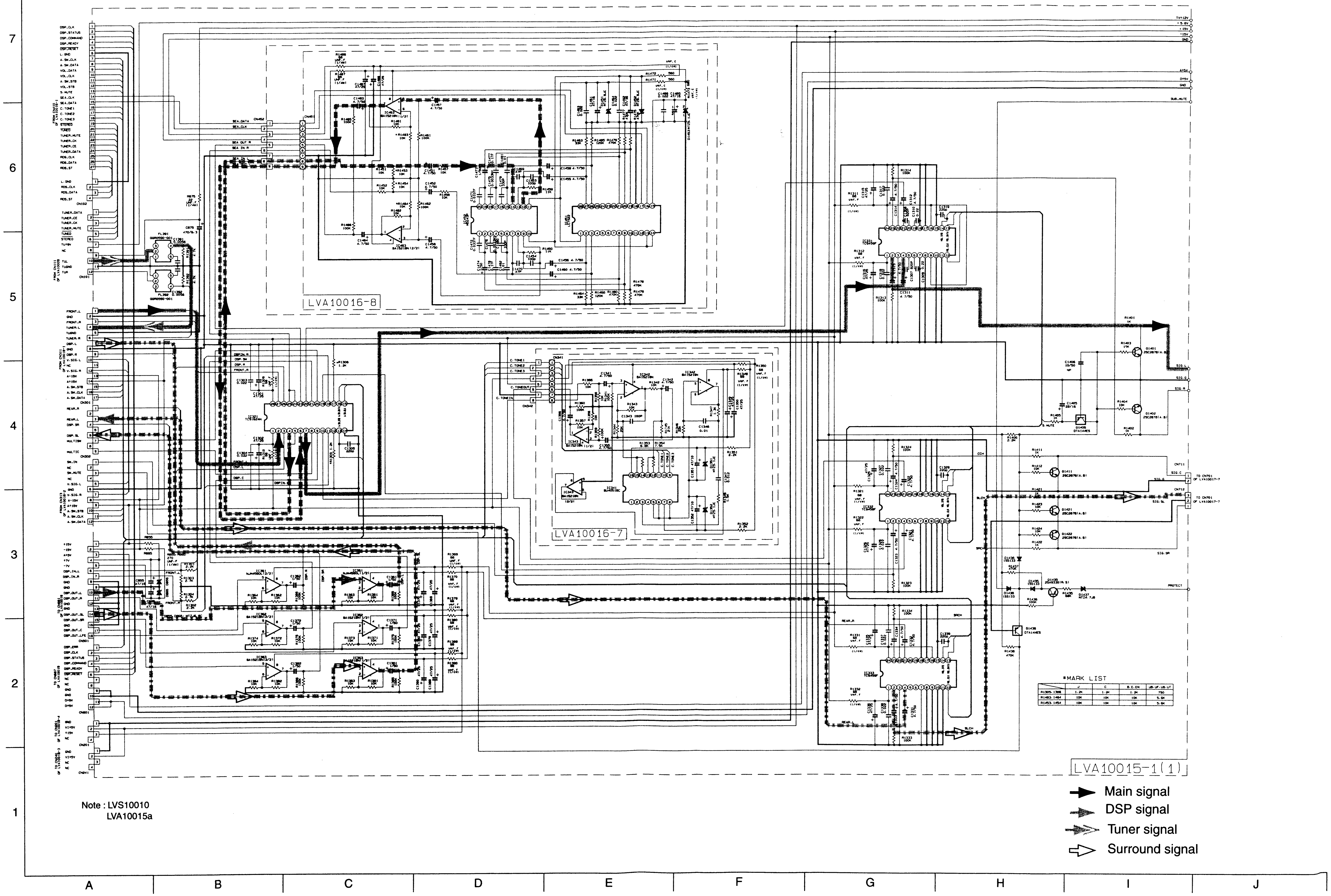
Note : LVS10011
lva10016a

■ DSP circuit


7
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J
IC501
DSP56362
IC532
IC541
IC542
IC543
IC531
CN801
CN687
R2502～R2507 : 47K
R2511～R2514 : 220
R2611～R2616 : 47K
C2502～C2521 : 0.01
K2501～K2503 : NQR0269-007
R2101～R2104 : 18K
R2106～R2109 : 33K

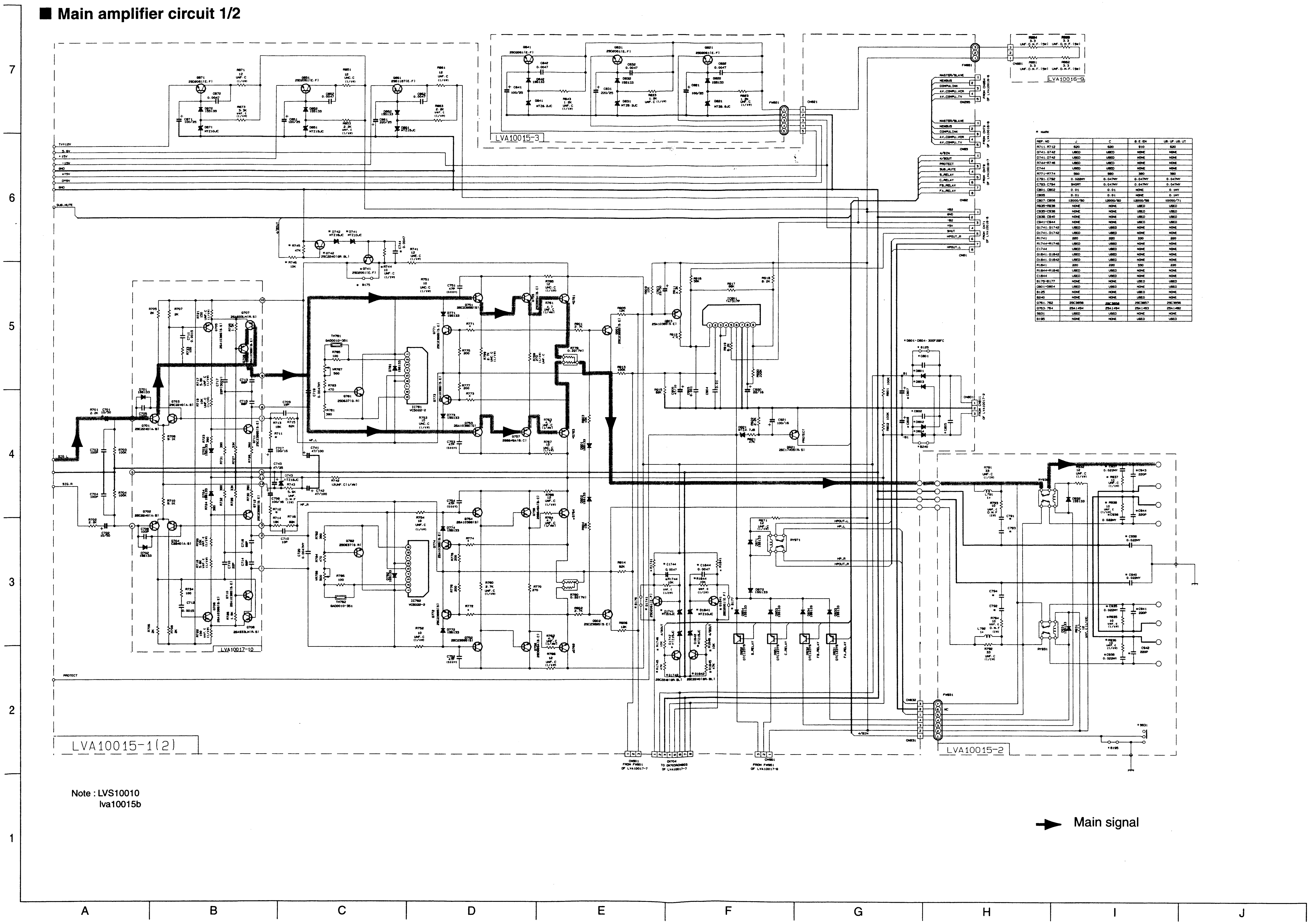
Note : lvb10019

■ Main anplifier circuit 2/2


LVA10016-8
LVA10016-7
LVA10015-1(1)
*MARK LIST
Main signal
DSP signal
Tuner signal
Surround signal
7
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J

Note : LVS10010
LVA10015a

■ Main amplifier circuit 1/2



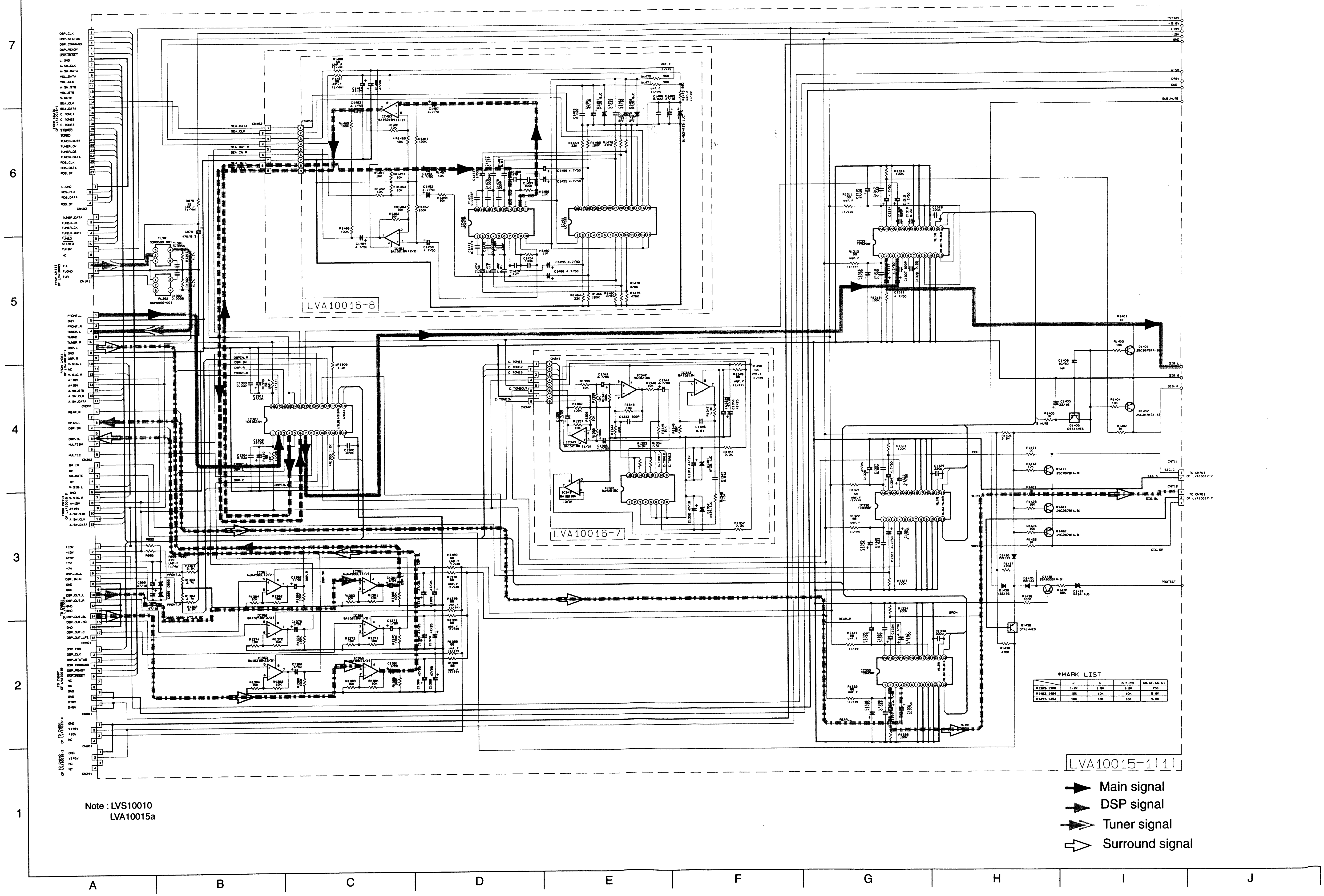
* MARK

REF. NO	J	C	B.E.EN	UB.UF.US.UT
R711.R712	620	620	910	620
Q741.Q742	USED	USED	NONE	NONE
D741.D742	USED	USED	NONE	NONE
R744-R746	USED	USED	NONE	NONE
C744	USED	USED	NONE	NONE
R771-R774	560	560	390	390
C791.C792	0.022MY	0.047MY	0.047MY	0.047MY
C793.C794	SHORT	0.047MY	0.047MY	0.047MY
C801.C802	0.01	0.01	NONE	0.1MY
C805	0.01	0.01	NONE	0.1MY
C807.C808	12000/80	12000/80	12000/56	10000/71
R935-R938	NONE	NONE	USED	USED
C935-C938	NONE	NONE	USED	USED
C939.C940	NONE	NONE	USED	USED
C941-C944	NONE	NONE	USED	USED
Q1741.Q1742	USED	USED	NONE	NONE
D1741.D1742	USED	USED	NONE	NONE
R1741	220	220	330	220
R1744-R1746	USED	USED	NONE	NONE
C1744	USED	USED	NONE	NONE
Q1841.Q1842	USED	USED	NONE	NONE
D1841.D1842	USED	USED	NONE	NONE
R1841	220	220	330	220
R1844-R1846	USED	USED	NONE	NONE
C1844	USED	USED	NONE	NONE
B175-B177	NONE	NONE	USED	USED
D801-D804	USED	USED	NONE	USED
B125	NONE	NONE	USED	NONE
B240	NONE	NONE	USED	NONE
Q761.762	2SC3858	2SC3858	2SC3857	2SC3856
Q763.764	2SA1494	2SA1494	2SA1493	2SA1492
S931	USED	USED	NONE	NONE
B195	NONE	NONE	USED	USED

Note : LVS10010
lva10015b

➔ Main signal

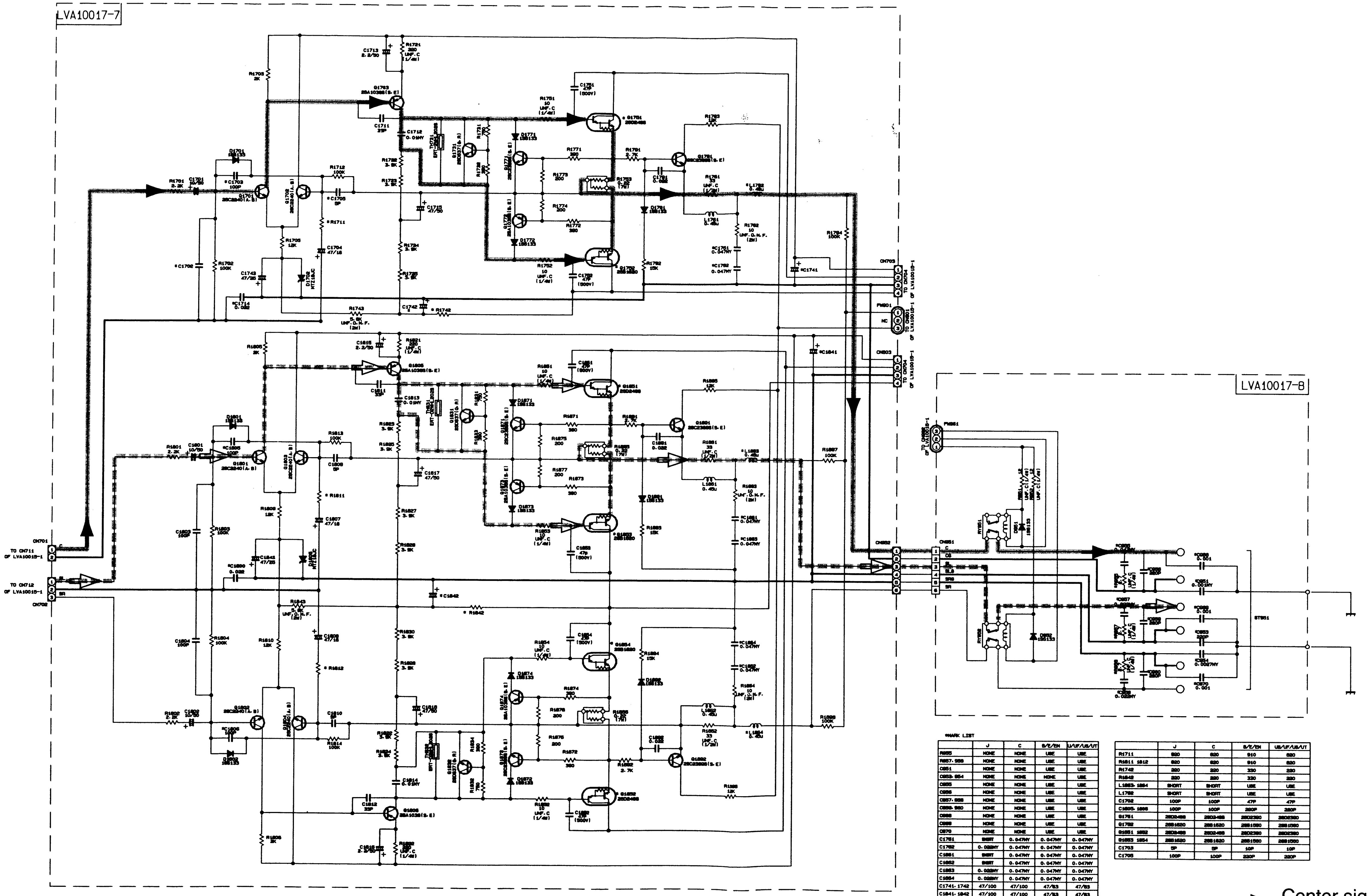
■ Main anplifier circuit 2/2


LVA10016-8
LVA10016-7
LVA10015-1(1)
Main signal
DSP signal
Tuner signal
Surround signal
Note : LVS10010
LVA10015a
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7

*MARK LIST

	J	C	B·E·EN	UB·UF·US·UT
R1305·1306	1.2K	1.2K	1.2K	750
R1483·1484	10K	10K	10K	5.6K
R1453·1454	10K	10K	10K	5.6K

■ Center/rear amplifier circuit


LVA10017-7
LVA10017-8
CN701
TO CN711 OF LVA10015-1
TO CN712 OF LVA10015-1
CN702
CN703
CN803
CN802
CN951
ST951
Q1703 2SA1038S(S,E)
Q1751 2SD2498
Q1752 2SB1620
Q1803 2SA1038S(S,E)
Q1851 2SD2498
Q1852 2SB1620
Q1853 2SB1620
Q1854 2SD2498
RY951
RY952
D951 1SS133
D952 1SS133
7 6 5 4 3 2 1
A B C D E F G H I J

*MARK LIST

	J	C	B/E/EN	U/UF/UB/UT
R955	NONE	NONE	USE	USE
R957·958	NONE	NONE	USE	USE
C951	NONE	NONE	USE	USE
C953·954	NONE	NONE	NONE	USE
C955	NONE	NONE	USE	USE
C956	NONE	NONE	USE	USE
C957·958	NONE	NONE	USE	USE
C959·960	NONE	NONE	USE	USE
C968	NONE	NONE	USE	USE
C969	NONE	NONE	USE	USE
C970	NONE	NONE	USE	USE
C1751	SHORT	0.047MY	0.047MY	0.047MY
C1752	0.022MY	0.047MY	0.047MY	0.047MY
C1851	SHORT	0.047MY	0.047MY	0.047MY
C1852	SHORT	0.047MY	0.047MY	0.047MY
C1853	0.022MY	0.047MY	0.047MY	0.047MY
C1854	0.022MY	0.047MY	0.047MY	0.047MY
C1741·1742	47/100	47/100	47/63	47/63
C1841·1842	47/100	47/100	47/63	47/63

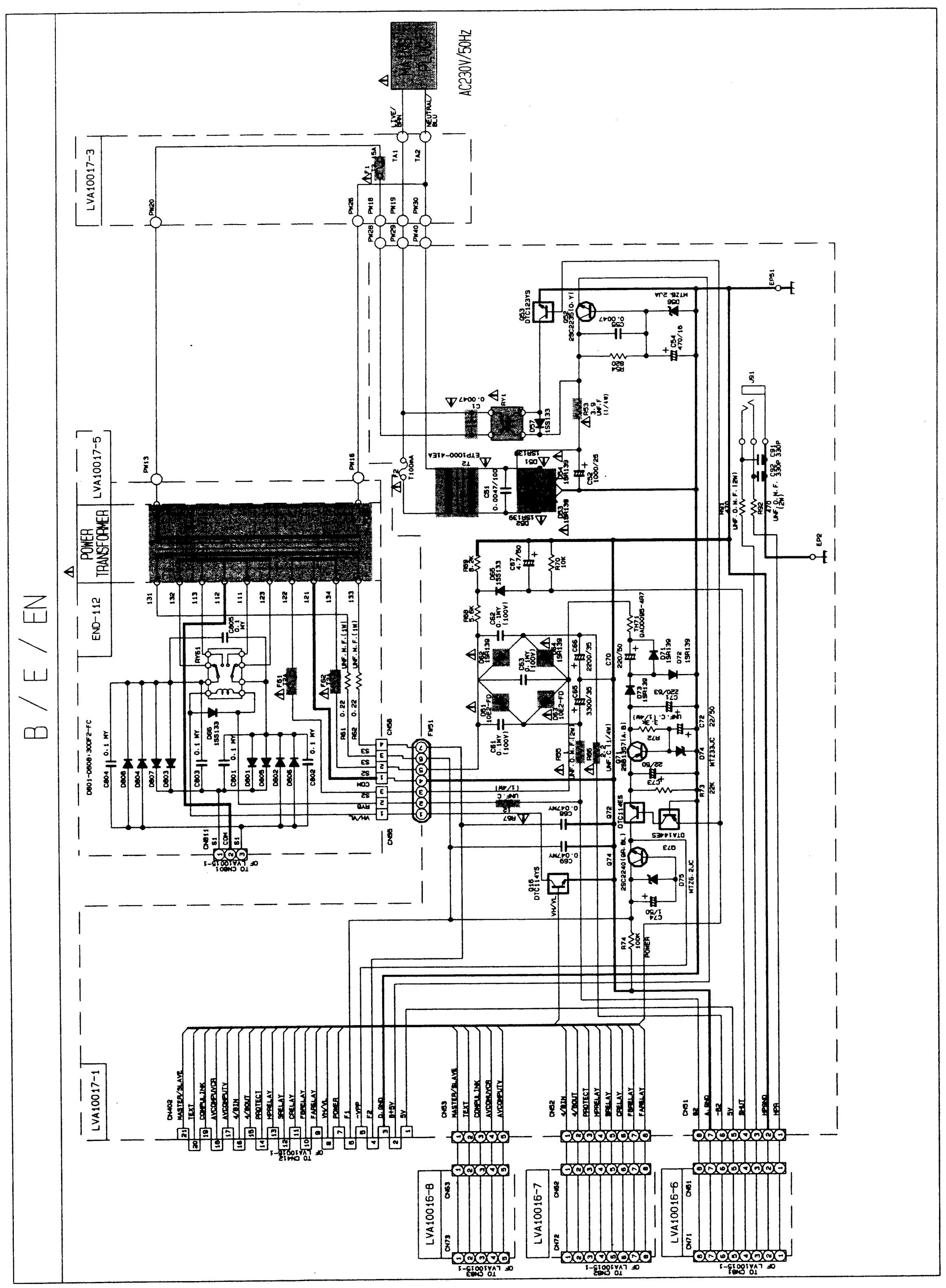
	J	C	B/E/EN	UB/UF/UB/UT
R1711	820	820	910	820
R1811 1812	820	820	910	820
R1742	220	220	330	220
R1842	220	220	330	220
L1853·1854	SHORT	SHORT	USE	USE
L1752	SHORT	SHORT	USE	USE
C1702	100P	100P	47P	47P
C1805·1806	100P	100P	220P	220P
Q1751	2SD2498	2SD2498	2SD2390	2SD2390
Q1752	2SB1620	2SB1620	2SB1560	2SB1560
Q1851 1852	2SD2498	2SD2498	2SD2390	2SD2390
Q1853 1854	2SB1620	2SB1620	2SB1560	2SB1560
C1703	5P	5P	10P	10P
C1706	100P	100P	220P	220P

➡ Center signal

⇨ Rear signal

Note : LVS10010
lva10017b

■ Power supply circuit (B/E/EN version)


B / E / EN
AC230V/50Hz
LVA10017-3
LVA10017-5
LVA10017-1
POWER TRANSFORMER
ENO-112
LVA10016-8
LVA10016-7
LVA10016-6
7
6
5
4
3
2
1
A
B
C
D
E

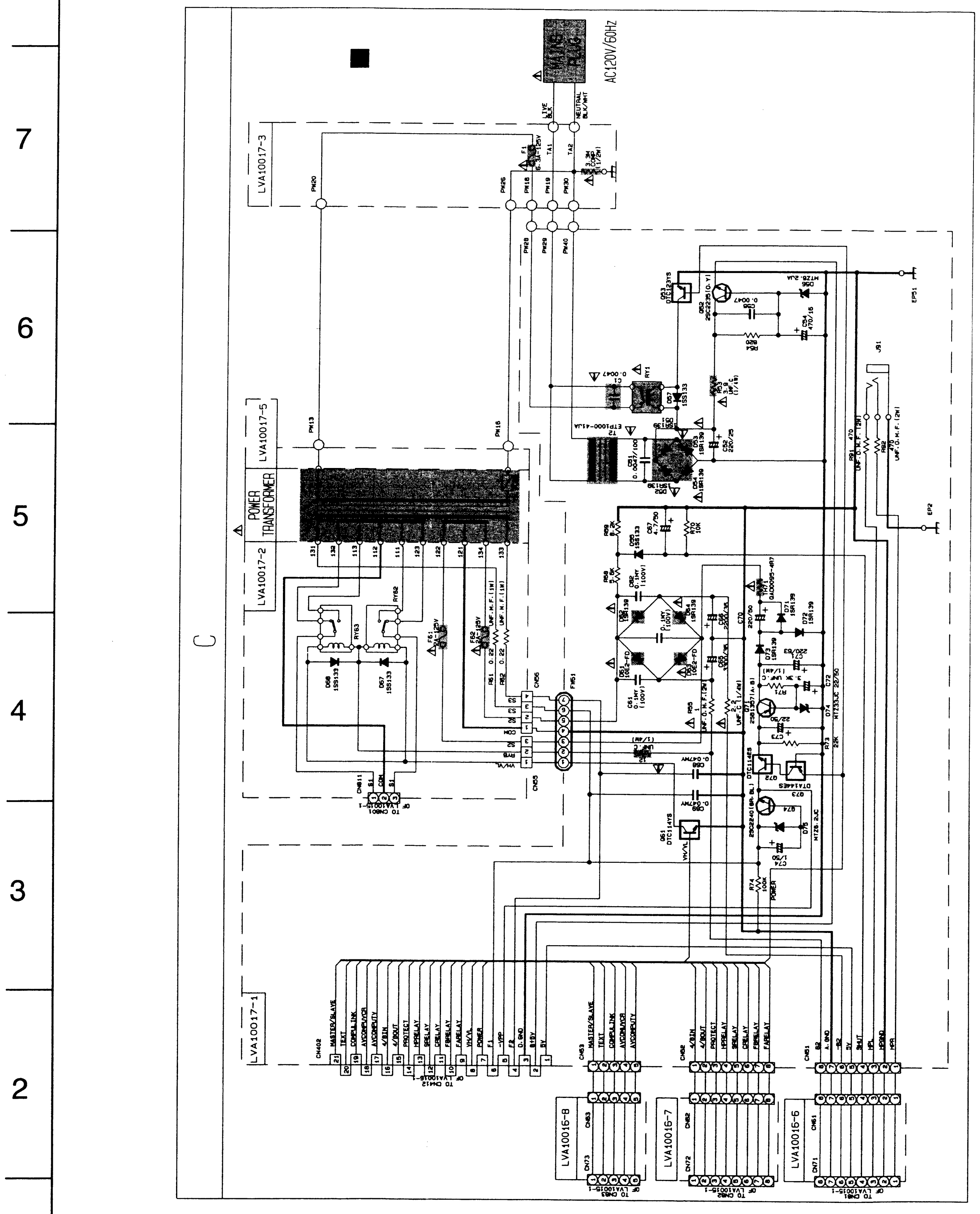
NOTES:

MARK(*) IS TO SHOW DEVIATION IN VERSIONS.
DETAILS ARE EXPLAINED NEAR THE MARK.

EXPLANATION OF OVERALL OF SCHEMA.
RX-888VBK/RX-888RBK/RX-888PBK/RX-889VGD/RX-889PGD

▨ ⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

■ Power supply circuit (C version)


AC120V/60Hz
LIVE BLK
NEUTRAL BLK/WHT
POWER TRANSFORMER
LVA10017-3
LVA10017-5
LVA10017-2
LVA10017-1
LVA10016-8
LVA10016-7
LVA10016-6
C
7
6
5
4
3
2

NOTES:

MARK(*) IS TO SHOW DEVIATION IN VERSIONS.
DETAILS ARE EXPLAINED NEAR THE MARK.

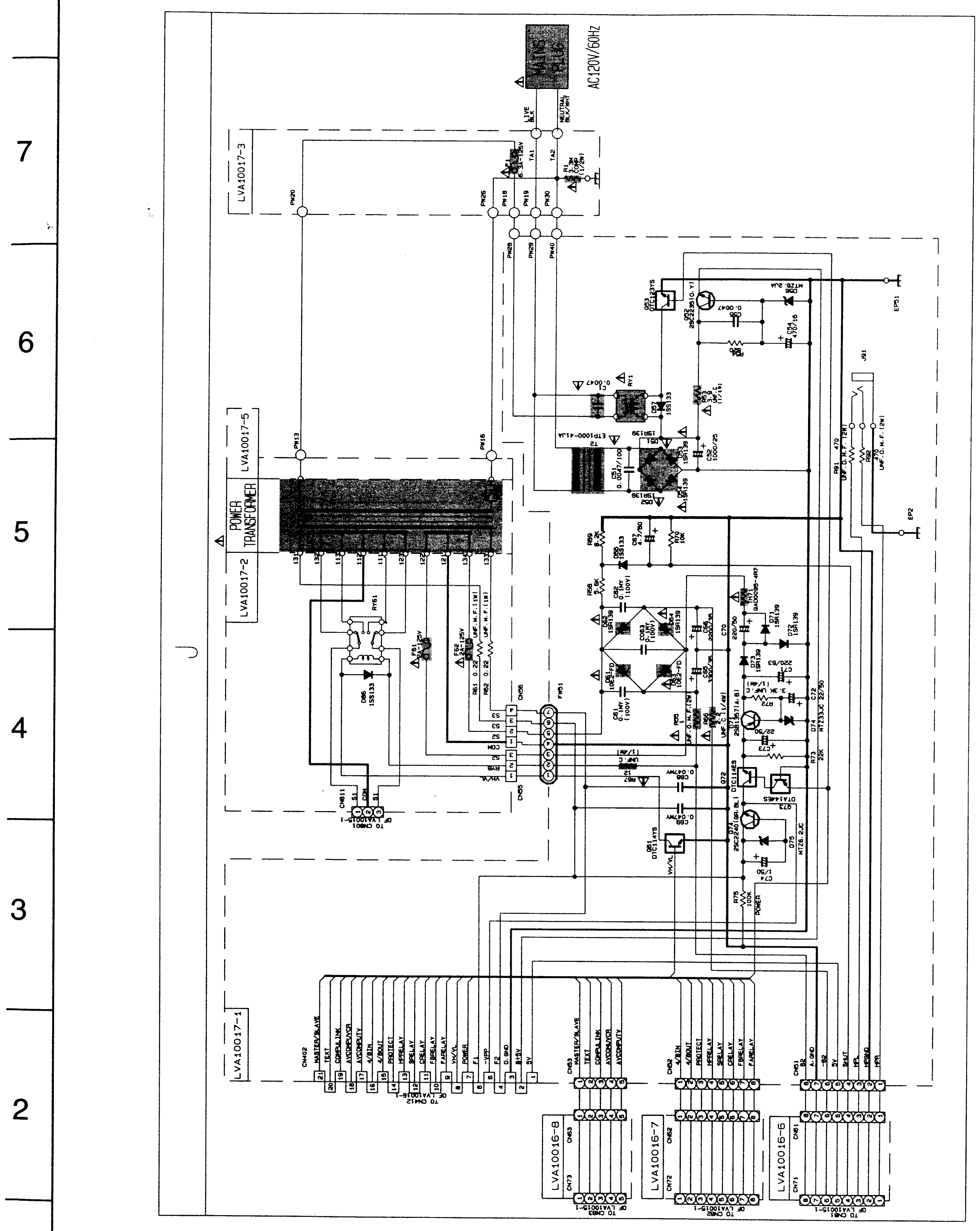
EXPLANATION OF OVERALL OF SCHEMA.
RX-888VBK/RX-888RBK/RX-888PBK/RX-889VGD/RX-889PGD

▩ ⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

1

A B C D E

■ Power supply circuit (J version)


AC120V/60Hz
LIVE BLK
NEUTRAL BLK/WHT
POWER TRANSFORMER
LVA10017-3
LVA10017-5
LVA10017-2
LVA10017-1
LVA10016-8
LVA10016-7
LVA10016-6
J
7
6
5
4
3
2

NOTES:

MARK(*) IS TO SHOW DEVIATION IN VERSIONS.
DETAILS ARE EXPLAINED NEAR THE MARK.

EXPLANATION OF OVERALL OF SCHEMA.
RX-888VBK/RX-888RBK/RX-888PBK/RX-889VGD/RX-889PGD

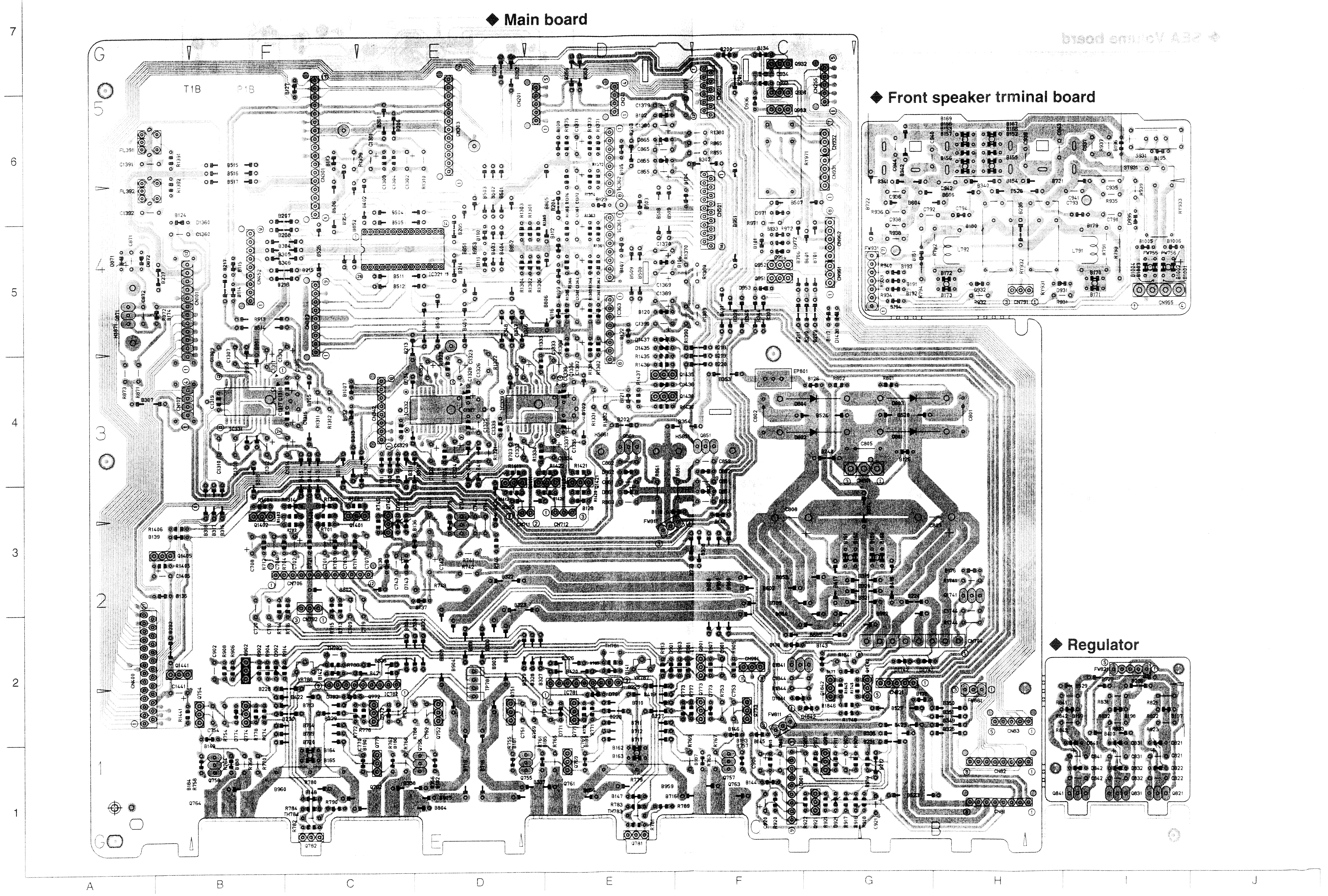
▩ ⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

1

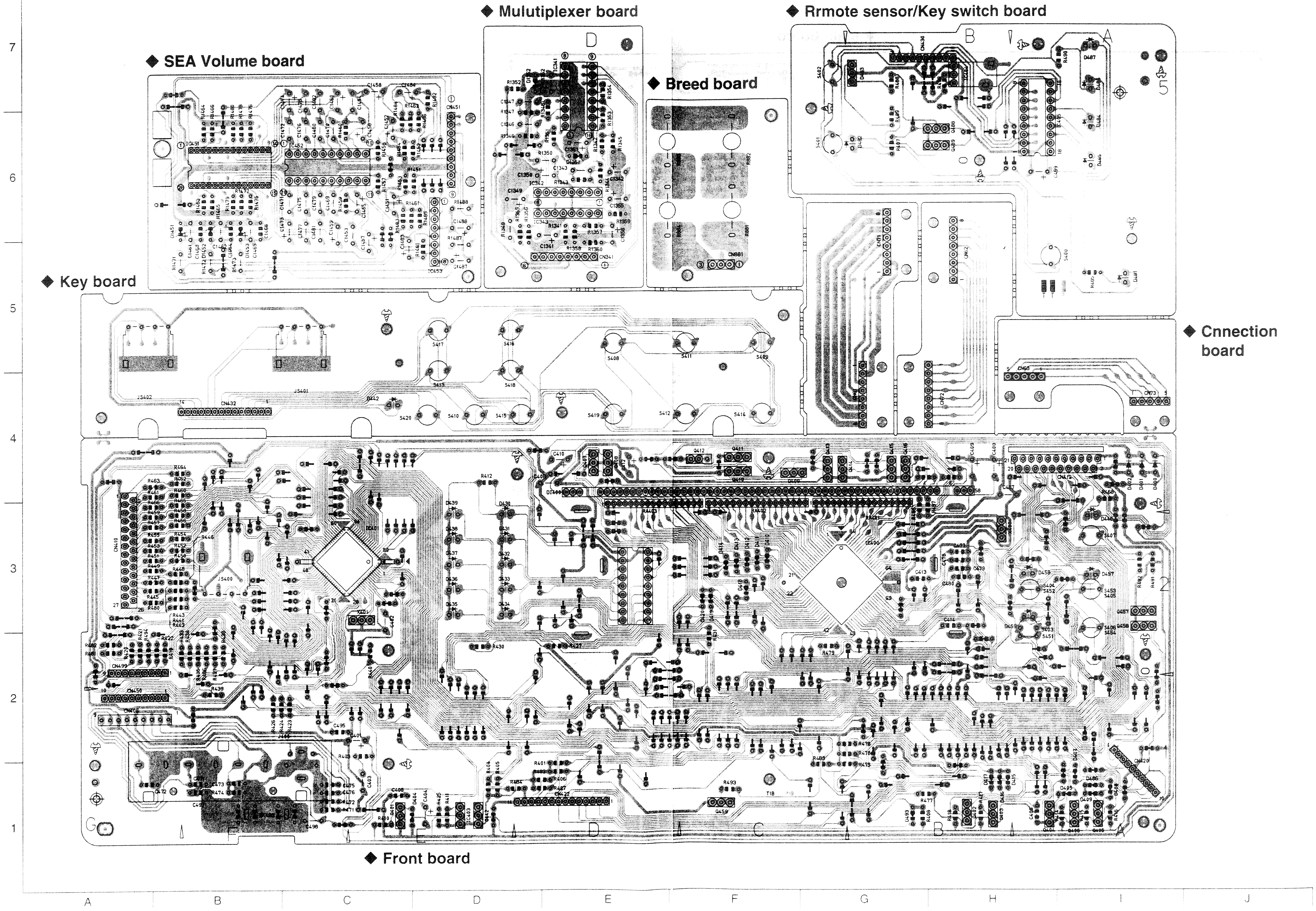
A B C D E

Printed circuit boards

■ Main circuit board Block No. 01

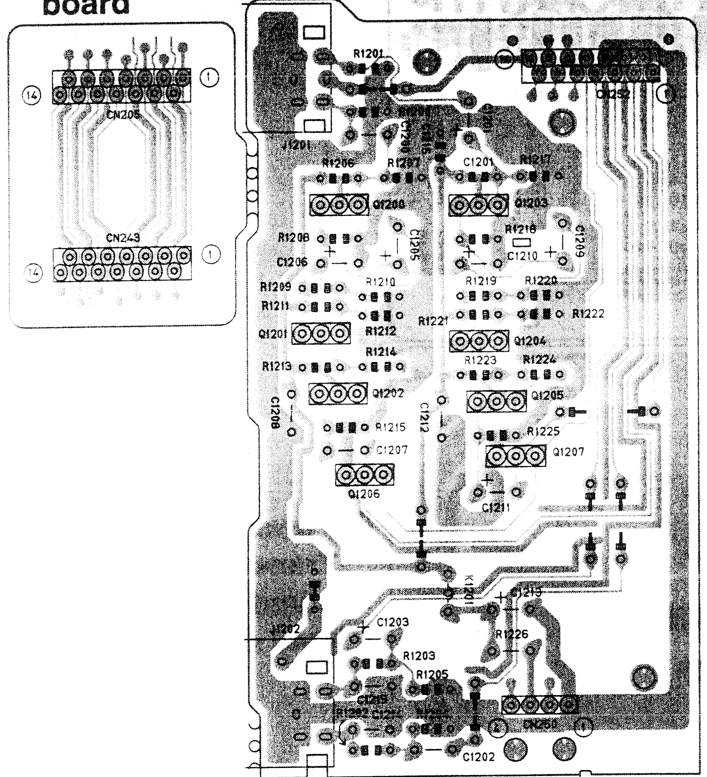

◆ Main board
◆ Front speaker trminal board
◆ Regulator
7
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J

■ Front circuit board Block No. 0 2

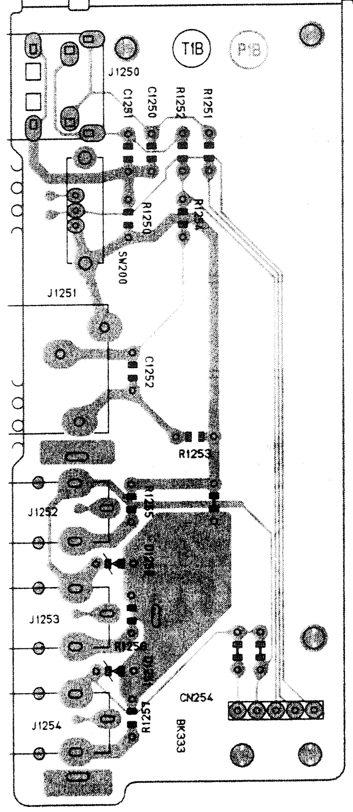

◆ Mulutiplexer board
◆ Rrmote sensor/Key switch board
◆ SEA Volume board
◆ Breed board
◆ Key board
◆ Cnnection board
◆ Front board
7
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J

■ I/O circuit board Block No. 04

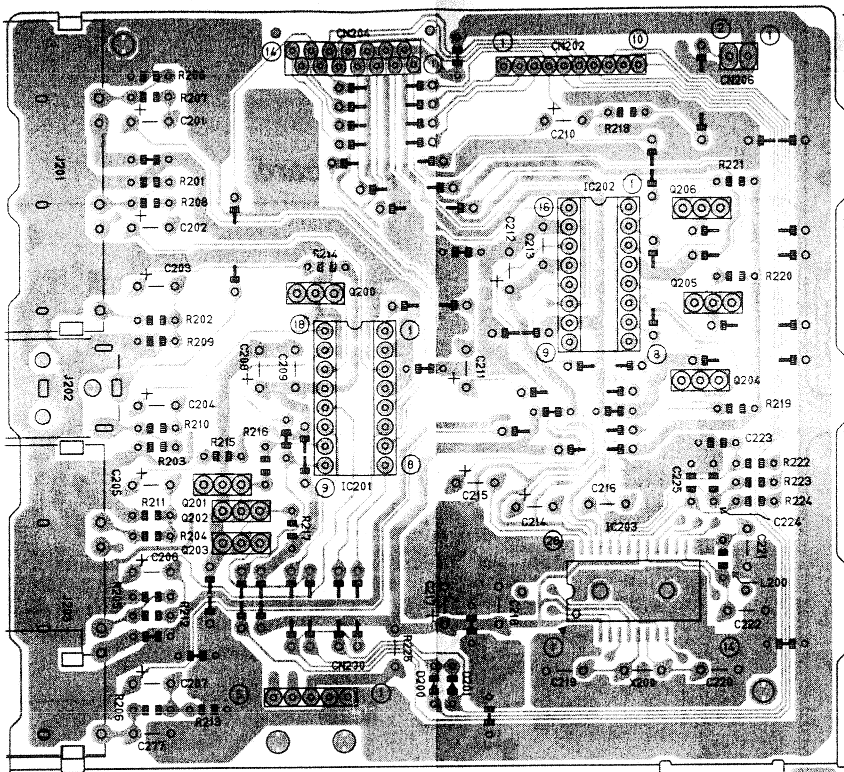
◆ Connection board



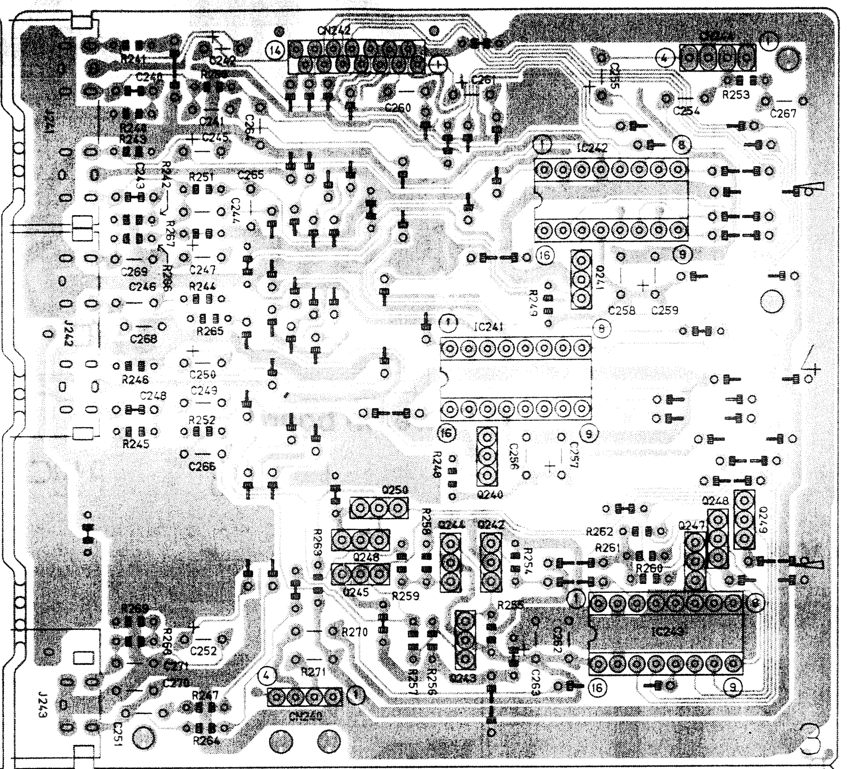
◆ Compulink board

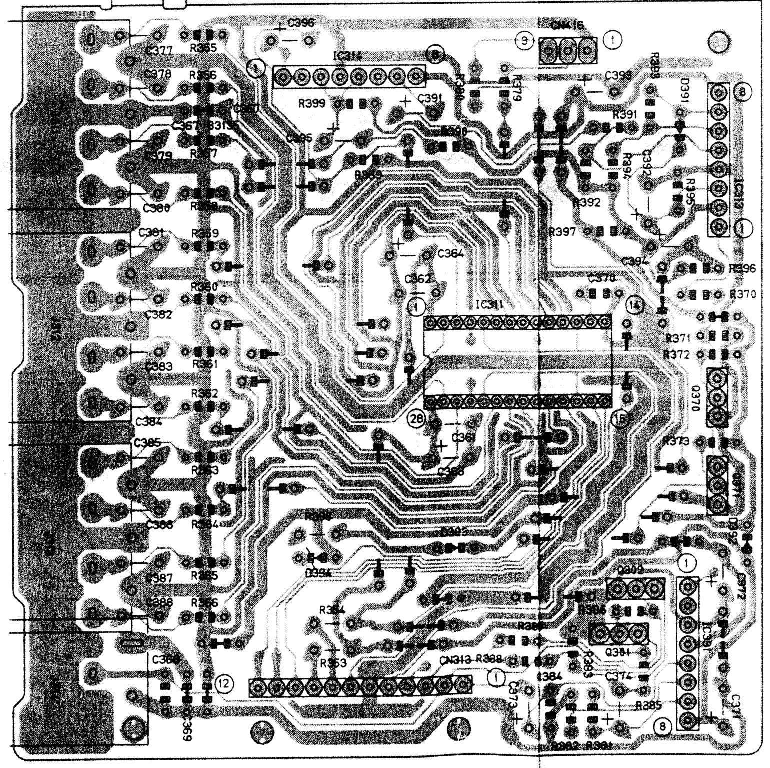


◆ Video select board

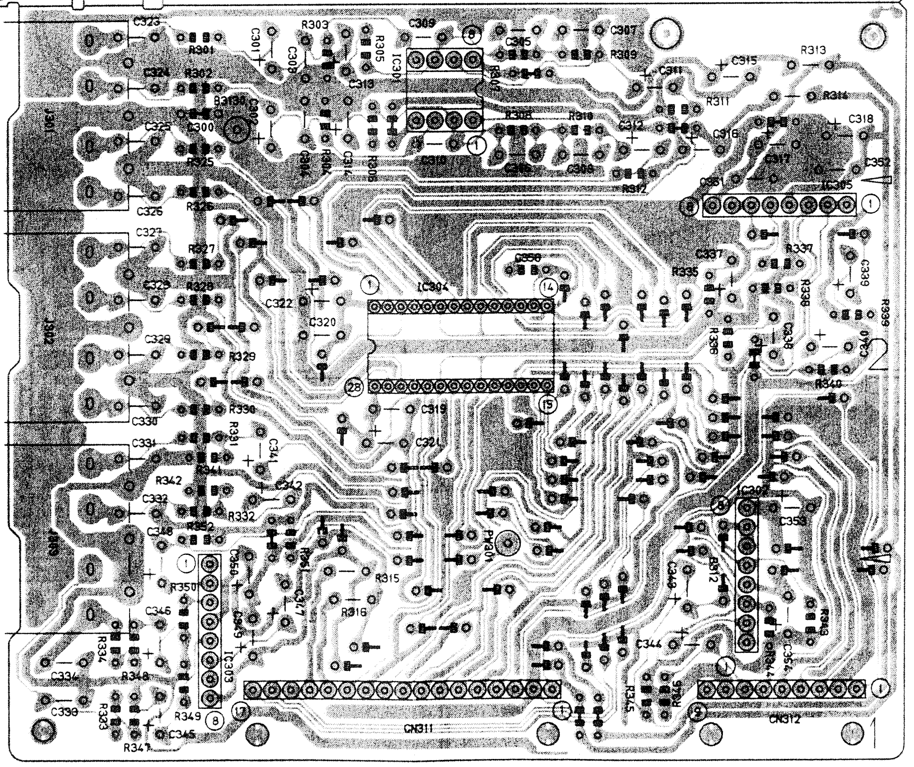


◆ S-Video select board





◆ Audio out select board

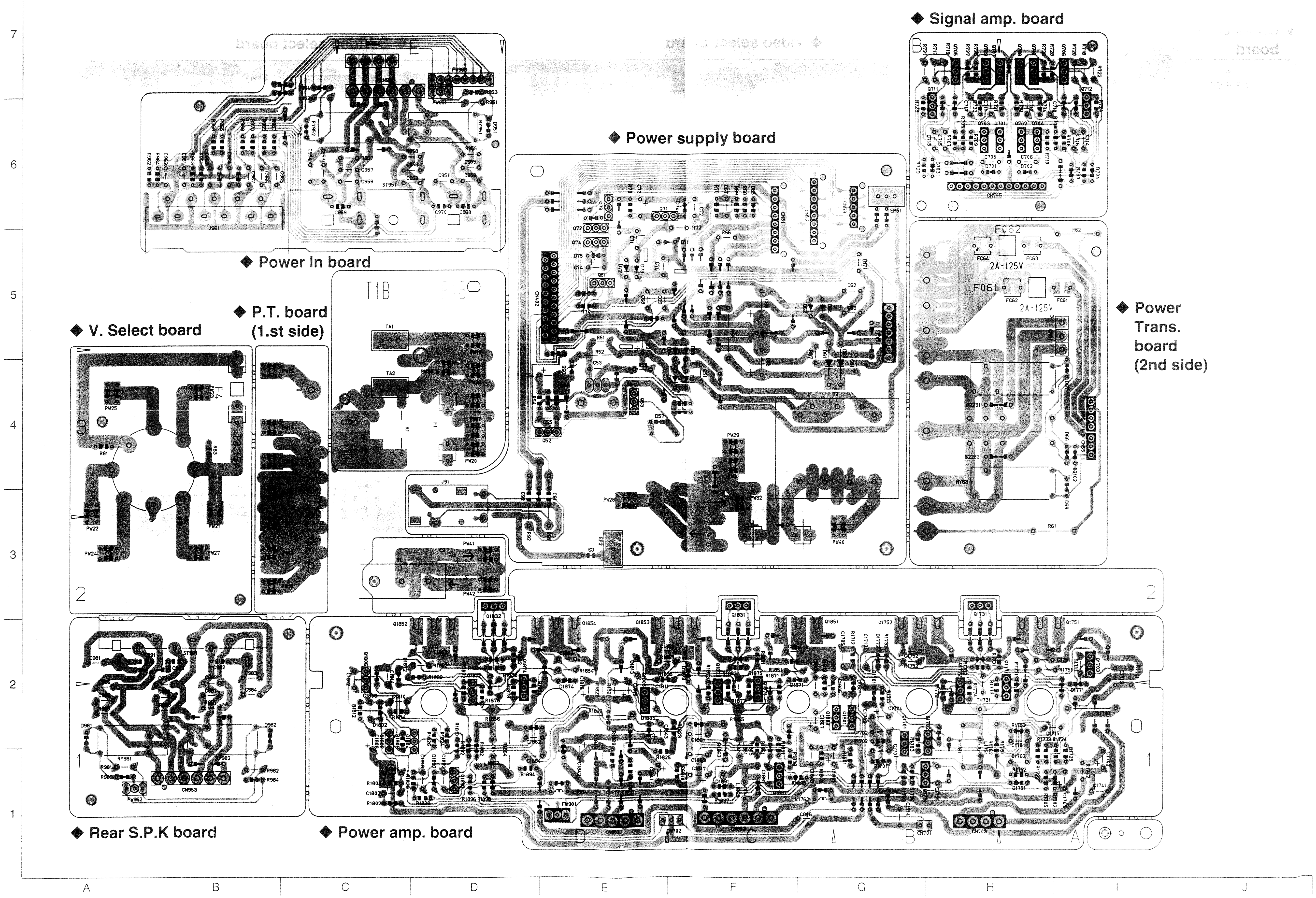


◆ Audio in select board

7
6
5
4
3
2
1

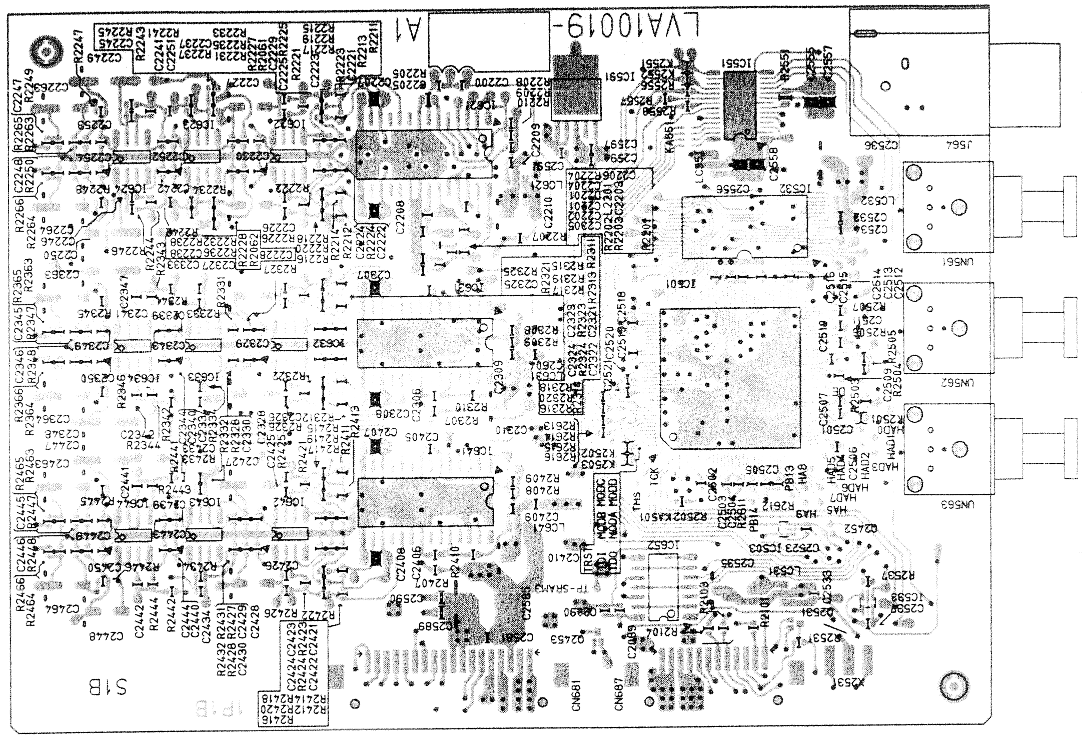
A B C D E F G H I J

■ Surround circuit board Block No. 03

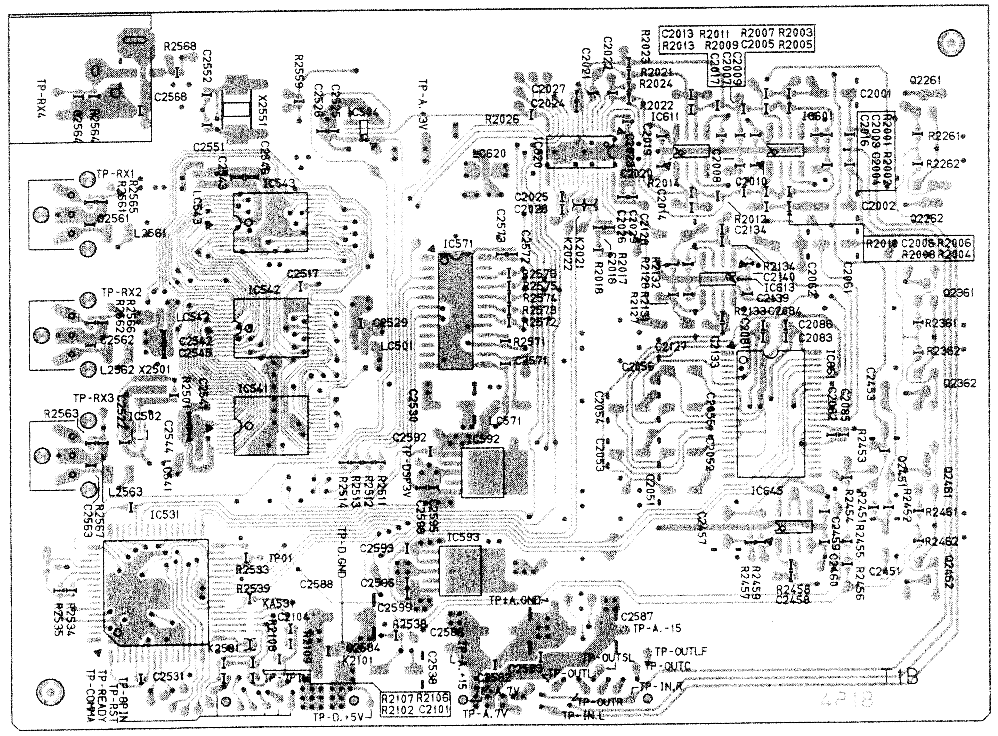

◆ Signal amp. board
◆ Power supply board
◆ Power In board
◆ V. Select board
◆ P.T. board (1.st side)
◆ Power Trans. board (2nd side)
◆ Rear S.P.K board
◆ Power amp. board
T1B
F062
2A-125V
F061
2A-125V
7
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J

■ DSP circuit board Block No. 0 5

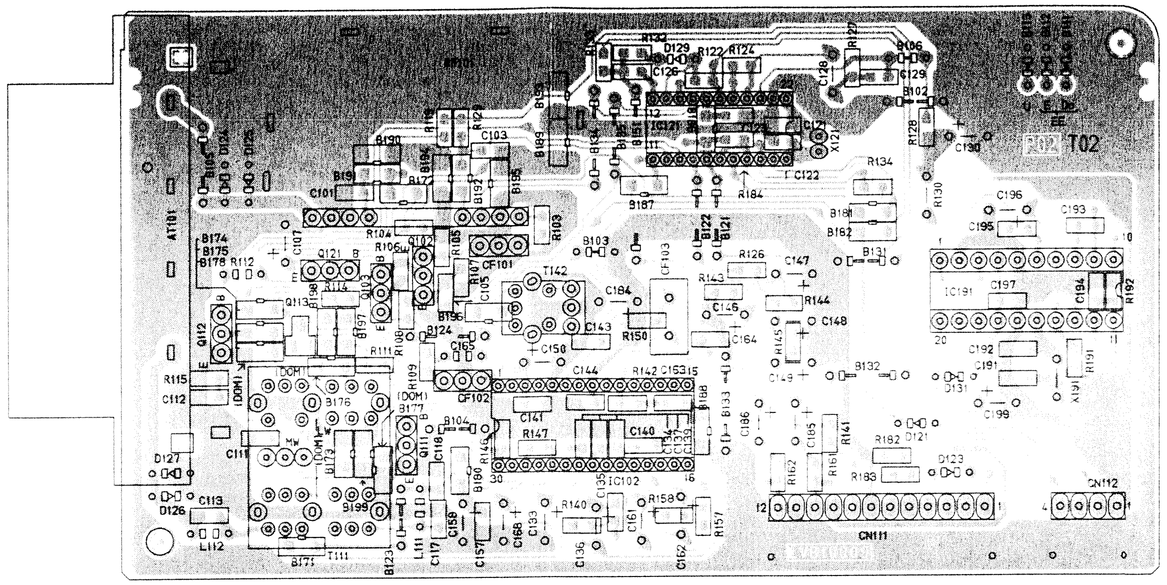
(bottom side)


LVA10019-A1
S1B

(suface side)



■ Tuner circuit board Block No. 0 6

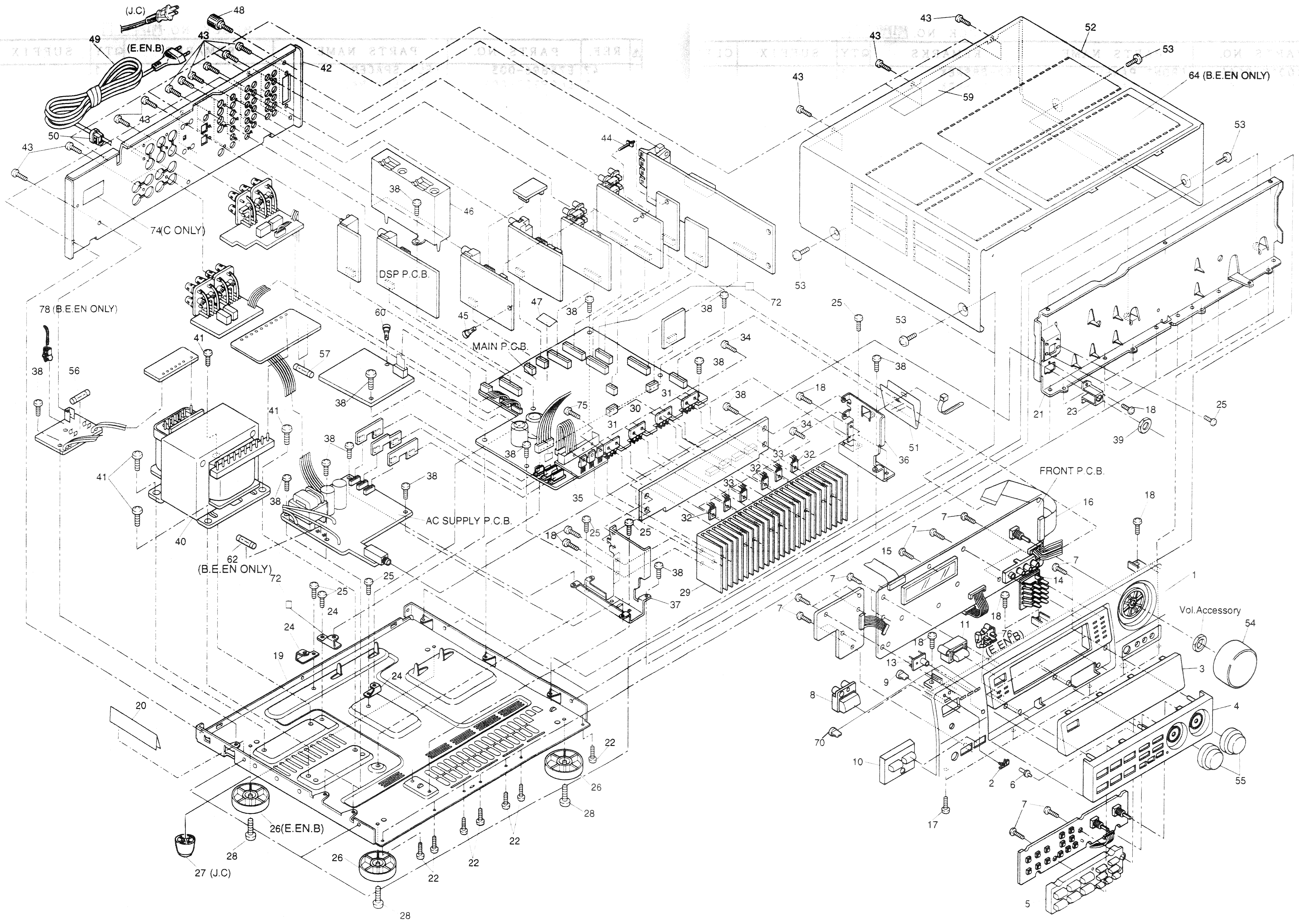


7
6
5
4
3
2
1

A B C D E F G H I J

General Exploded View and Parts List

Block No. M 1 M M


(J.C)
48
49
(E.EN.B)
43
42
50
74(C ONLY)
44
38
46
DSP P.C.B.
47
45
60
MAIN P.C.B.
72
53
52
59
64 (B.E.EN ONLY)
78 (B.E.EN ONLY)
56
41
57
40
62
(B.E.EN ONLY)
AC SUPPLY P.C.B.
75
30
31
34
35
33
32
18
25
37
29
21
23
39
51
36
FRONT P.C.B.
16
7
15
14
1
Vol.Accessory
54
3
4
55
11
13
9
8
70
10
2
6
17
5
76
(E.EN.B)
19
20
24
22
26
26(E.EN.B)
27 (J.C)
28

PARTS LIST

[RX-888VBK RX-888RBK]

* All printed circuit boards and its assemblies are not available as service parts.

Areas Suffix

RX-888VBK

J ---------------------------- U.S.A.
C -------------------------- Canada

Areas Suffix

RX-888RBK

B ------------------------------ U.K.
E ----------- Continental Europe
EN ------------ Northern Europe

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Exploded View of General Assembly and Parts List ---------------------------------- 3-3
Electrical Parts List -- 3-5
Packing Materials and Accessories Parts List -- 3-28

■ Parts List (General Assembly)

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	LV10018-016A	FRONT PANEL	RX-888RBK	1		
		LV10018-015A	FRONT PANEL	RX-888VBK	1		
	2	VJD5429-001SS	JVC MARK		1		
	3	LV20031-007A	LENS	RX-888VBK	1		
		LV20031-008A	LENS	RX-888RBK	1		
	4	LV20032-005A	FRONT ESC		1		
	5	LV20034-001A	PUSH BUTTON		1		
	6	LV40099-001A	INDICATOR		1		
	7	QYSDSF2608Z	SCREW		19		
	8	LV30068-002A	P.BUTTON(POWER)	RX-888RBK	1		
		LV30068-001A	P.BUTTON(POWER)	RX-888VBK	1		
	9	FSJD4001-002	INDICATOR	POWER	1		
	10	LV30069-001A	P.BUTTON ASSY		1		
	11	LV30071-001A	P.BUTTON ASSY	DOLBY	1		
	13	E308744-002	REMOTE LENS		1		
	14	LV30073-001A	SOURCE INDICATO		1		
	15	QUQ412-2120CJ	FLAT WIRE ASSY		1		
	16	QUQ412-2722CJ	FLAT WIRE ASSY		1		
	17	QYSDSG3008M	SCREW	FRONT D	5		
	18	QYSBSG3008E	T.SCREW	FRONT U	8		
	19	LV10019-002A	CHASSIS BASE		1		
	20	EX0150010H09S11	FELT SPACER	FOR C.BASE	1		
	21	LV10020-001A	FRONT BRACKET		1		
	22	QYSDSG3008E	T.SCREW	C.B-F.B	7		
	23	LE40139-001A	H.P. BKT		1		
	24	E68587-223SM	CB BKT		3		
	25	QYSBST3006E	TAP.SCREW		9		
	26	QZF6018-001	FOOT	RX-888RBK	4		
		QZF6018-001	FOOT	RX-888VBK	2		
	27	E47227-036	FOOT	RX-888VBK ONLY	2		
	28	QYSBST3010Z	TH TAP SCREW	FOOT	4		
	29	LV30075-001A	HEAT SINK		1		
	30	2SC3857/PY/-F1	TRANSISTOR	RX-888RBK	2		
		2SC3858/PG/-F1	TRANSISTOR	RX-888VBK	2		
	31	2SA1494/PG/-F1	TRANSISTOR	RX-888VBK	2		
		2SA1493/PY/-F1	TRANSISTOR	RX-888RBK	2		
	32	2SD2488/Z1/-F1	TRANSISTOR	RX-888VBK	3		
		2SD2390LD/OPY/	TRANSISTOR	RX-888RBK	3		
	33	2SB1620/OP/-F1	TRANSISTOR	RX-888VBK	3		
		2SB1560LD/OPY/	TRANSISTOR	RX-888RBK	3		
	34	E73525-003SS	SCREW		14		
	35	LV40390-001A	LEAF SPRING		1		
	36	LV20035-001A	H.S BRACKET(R)		1		
	37	LV20036-001A	H.S BRACKET(L)		1		
	38	QYSBSGG3008E	T.SCREW		17		
	39	VKZ4150-001	SPECIAL NUT	H,P	1		
⚠	40	QQT0212-002	POWER TRANSF	RX-888RBK	1		
⚠		QQT0211-001	POWER TRANSF	RX-888VBK	1		
	41	QYSDSTL4008E	SPECIAL SCREW	P.TRANS	4		
	42	LV10021-050A	REAR PANEL	RX-888VBK	1		
		LV10021-037A	REAR PANEL	RX-888RBK	1		
	43	QYSBSGY3008E	SPECIAL SCREW		31		
	44	E302321-001	FASTNER	SPACER	1		
	45	E48729-008	PLASTIC RIVET	S VIDEO C.B	1		
	46	LV20037-001A	SHIELD CASE		1		

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	47	E75896-003	FELT SPACER		1		
	48	E409257-001	GND TERMINAL		1		
⚠	49	QMPD220-200-JD	POWER CORD	RX-888VBK J.C.	1		
⚠		QMP3900-200L	POWER CORD	RX-888RB E EN	1		
⚠		QMP5530-0085LBS	POWER CORD	RX-888RB B	1		
	50	QHS3771-108	CORD STOPPER		1		
	51	LV30076-001A	PROTECTOR		1		
	52	LV20038-002A	TOP COVER		1		
	53	E406308-003	SPECIAL SCREW		4		
	54	LV30480-001A	VOL KNOB ASS'Y		1		
	55	LV30481-001A	JOG KNOB		2		
⚠	56	QMF51U1-6R3-J1	FUSE	RX-888VBK	1		
⚠		QMF51E2-3R15-J1	FUSE	RX-888RBK	1		
⚠	57	QMF51E2-2R0-J1	FUSE	RX-888RBK	2		
⚠		QMF51U1-2R0-J1	FUSE	RX-888VBK	2		
⚠	59	E409396-001	CAUTION LABEL	C.E.EN.B	1		
⚠		E409394-001	CAUTION LABEL	J	1		
	60	E310243-002	PLASTIC RIVET		1		
⚠	62	QMF51E2-R10-J1	FUSE	RX-888RBK ONLY	2		
	64	LV30077-001A	PROTECT SHEET	RX-888RBK ONLY	1		
	70	LV40758-001A	INDICATOR	RX-888VBK	3		
		LV40758-001A	INDICATOR	RX-888RBK	4		
	72	LV30225-023A	SPACER		2		
⚠	74	E65507-001	CAUTION LABEL	RX-888RBK C	1		
	75	QYSBSG3008E	T.SCREW	TR(LEAF)	2		
	76	LV30067-001A	P.BUTTON	RX-888RBK ONLY	1		
⚠	78	E307572-001	FASTNER	RX-888RBK ONLY	1		

Electrical Parts List

■ Main P.C.B.

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C701	QETN1HM-105Z	E CAPACITOR	10MF 20% 50V	
	C702	QETN1HM-105Z	E CAPACITOR	10MF 20% 50V	
	C703	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C704	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C707	QET41CM-107	E CAPACITOR	100MF 20% 16V	
	C708	QET41CM-107	E CAPACITOR	100MF 20% 16V	
	C709	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C710	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C719	QFLC1HJ-472Z	M CAPACITOR	4700PF 5% 50V	
	C720	QFLC1HJ-472Z	M CAPACITOR	4700PF 5% 50V	
	C741	QETN2AM-476Z	E CAPACITOR	47MF 20% 100V	
	C742	QETN2AM-476Z	E CAPACITOR	47MF 20% 100V	
	C743	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C744	QCF31HZ-472Z	C CAPACITOR	RX-888VBK ONLY	
	C751	QCS32HJ-470Z	C.CAPACITOR	47PF 5% 500V	
	C752	QCS32HJ-470Z	C.CAPACITOR	47PF 5% 500V	
	C753	QCS32HJ-470Z	C.CAPACITOR	47PF 5% 500V	
	C754	QCS32HJ-470Z	C.CAPACITOR	47PF 5% 500V	
	C791	QFLC1HJ-223Z	M CAPACITOR	RX-888VBK J	
	C791	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK	
	C791	QFLC1HJ-473Z	M CAPACITOR	RX-888VBK C	
	C792	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK	
	C792	QFLC1HJ-473Z	M CAPACITOR	RX-888VBK C	
	C792	QFLC1HJ-223Z	M CAPACITOR	RX-888VBK J	
	C793	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK	
	C793	QFLC1HJ-473Z	M CAPACITOR	RX-888VBK C	
	C794	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK	
	C794	QFLC1HJ-473Z	M CAPACITOR	RX-888VBK C	
	C801	QFN82CK-104	M CAPACITOR	RX-888RBK ONLY	
	C801	QCE22HP-103	C.CAPACITOR	RX-888VBK ONLY	
	C802	QCE22HP-103	C.CAPACITOR	RX-888VBK ONLY	
	C802	QFN82CK-104	M CAPACITOR	RX-888RBK ONLY	
	C803	QFN82CK-104	M CAPACITOR	RX-888RBK ONLY	
	C804	QFN82CK-104	M CAPACITOR	RX-888RBK ONLY	
	C805	QFN82CK-104	M CAPACITOR	RX-888RBK ONLY	
	C805	QCE22HP-103	C.CAPACITOR	RX-888VBK ONLY	
	C807	QEZ0356-129	E.CAPACITOR	RX-888VBK	
	C807	QEZ0427-129	E.CAPACITOR	RX-888VBK	
	C808	QEZ0427-129	E.CAPACITOR	RX-888VBK	
	C808	QEZ0356-129	E.CAPACITOR	RX-888VBK	
	C821	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C822	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C831	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C832	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C841	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C842	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C851	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C852	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C855	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C861	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C862	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C865	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C871	QEHC1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C872	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C875	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C903	QER61HM-226Z	E.CAPACITOR	22MF 20% 50V	
	C904	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C905	QCB31HK-102Z	C.CAPACITOR	1000PF 10% 50V	
	C906	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C920	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C921	QER61CM-107Z	E.CAPACITOR	100MF 20% 16V	
	C935	QFLC1HJ-223Z	M CAPACITOR	RX-888RBK ONLY	
	C936	QFLC1HJ-223Z	M CAPACITOR	RX-888RBK ONLY	
	C937	QFLC1HJ-223Z	M CAPACITOR	RX-888RBK ONLY	
	C938	QFLC1HJ-223Z	M CAPACITOR	RX-888RBK ONLY	
	C939	QFLC1HJ-223Z	M CAPACITOR	RX-888RBK ONLY	
	C940	QFLC1HJ-223Z	M CAPACITOR	RX-888RBK ONLY	
	C941	QCS31HJ-221Z	C CAPACITOR	RX-888RBK ONLY	
	C942	QCS31HJ-221Z	C CAPACITOR	RX-888RBK ONLY	
	C943	QCS31HJ-221Z	C CAPACITOR	RX-888RBK ONLY	
	C944	QCS31HJ-221Z	C CAPACITOR	RX-888RBK ONLY	
	D066	1SS133-T2	DIODE	RX-888RBK ONLY	
	D741	MTZJ10C-T2	Z.DIODE I.M	RX-888VBK ONLY	
	D742	MTZJ16C-T2	Z.DIODE I.M	RX-888VBK ONLY	
	D743	MTZJ18C-T2	Z.DIODE I.M		
	D771	1SS133-T2	DIODE		
	D772	1SS133-T2	DIODE		
	D773	1SS133-T2	DIODE		
	D774	1SS133-T2	DIODE		
	D781	1SS133-T2	DIODE		
	D782	1SS133-T2	DIODE		
	D801	30DF2-FC	DIODE	RX-888VBK ONLY	
	D801	30DF2-FC	DIODE	RX-888RBK ONLY	
	D802	30DF2-FC	DIODE	RX-888RBK ONLY	
	D802	30DF2-FC	DIODE	RX-888VBK ONLY	
	D803	30DF2-FC	DIODE	RX-888VBK ONLY	
	D803	30DF2-FC	DIODE	RX-888RBK ONLY	
	D804	30DF2-FC	DIODE	RX-888RBK ONLY	
	D804	30DF2-FC	DIODE	RX-888VBK ONLY	
	D805	30DF2-FC	DIODE	RX-888RBK ONLY	
	D806	30DF2-FC	DIODE	RX-888RBK ONLY	
	D807	30DF2-FC	DIODE	RX-888RBK ONLY	
	D808	30DF2-FC	DIODE	RX-888RBK ONLY	
	D821	MTZJ6.8C-T2	Z DIODE I/M		
	D822	1SS133-T2	DIODE		
	D831	MTZJ6.2C-T2	ZENER DIODE		
	D832	1SS133-T2	DIODE		
	D841	MTZJ6.2C-T2	ZENER DIODE		
	D842	1SS133-T2	DIODE		
	D851	MTZJ15C-T2	Z DIODE		
	D852	1SS133-T2	DIODE		
	D855	MTZJ6.8C-T2	Z DIODE I/M		
	D861	MTZJ15C-T2	Z DIODE		
	D862	1SS133-T2	DIODE		
	D865	MTZJ6.8C-T2	Z DIODE I/M		
	D871	MTZJ10C-T2	Z.DIODE I.M		
	D872	1SS133-T2	DIODE		
	D901	1SS133-T2	DIODE		
	D902	1SS133-T2	DIODE		
	D921	MTZJ4.7B-T2	Z DIODE I M		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D931	1SS133-T2	DIODE		
	D932	1SS133-T2	DIODE		
	D933	1SS133-T2	DIODE		
	D934	1SS133-T2	DIODE		
	D953	1SS133-T2	DIODE		
	D954	1SS133-T2	DIODE		
	D971	1SS133-T2	DIODE		
	D972	1SS133-T2	DIODE		
	L791	QQLZ003-1R0	INDUCTOR		
	L792	QQLZ003-1R0	INDUCTOR		
	Q741	2SD2061/EF/	TRANSISTOR	RX-888VBK ONLY	
	Q742	2SC2240/GL/-T	TRANSISTOR I/M	RX-888VBK ONLY	
	Q751	2SC2389S/S/-T	TRANSISTOR		
	Q752	2SC2389S/S/-T	TRANSISTOR		
	Q753	2SA1038S/S/-T	TRANSISTOR		
	Q754	2SA1038S/S/-T	TRANSISTOR		
	Q755	2SD669A/BC/	TRANSISTOR		
	Q756	2SD669A/BC/	TRANSISTOR		
	Q757	2SB649A/BC/	TRANSISTOR		
	Q758	2SB649A/BC/	TRANSISTOR		
	Q771	2SC2389S/SE/-T	TRANSISTOR		
	Q772	2SC2389S/SE/-T	TRANSISTOR		
	Q773	2SA1038S/SE/-T	TRANSISTOR		
	Q774	2SA1038S/SE/-T	TRANSISTOR		
	Q781	2SD637/QR/	TRANSISTOR		
	Q782	2SD637/QR/	TRANSISTOR		
	Q821	2SD2061/EF/	TRANSISTOR		
	Q831	2SD2061/EF/	TRANSISTOR		
	Q841	2SD2061/EF/	TRANSISTOR		
	Q851	2SD2061/EF/	TRANSISTOR		
	Q861	2SB1187/EF/	TRANSISTOR		
	Q871	2SD2061/EF/	TRANSISTOR		
	Q901	2SC2389S/SE/-T	TRANSISTOR		
	Q902	2SC2389S/SE/-T	TRANSISTOR		
	Q903	2SA1038S/SE/-T	TRANSISTOR		
	Q921	2SC1740S/RS/-T	TRANSISTOR		
	Q931	DTC123YSA-T	D.TRANSISTOR		
	Q932	DTC123YSA-T	D.TRANSISTOR		
	Q951	DTC123YSA-T	D.TRANSISTOR		
	Q952	DTC123YSA-T	D.TRANSISTOR		
	R701	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R702	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R703	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R704	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R711	QRE141J-621Y	C RESISTOR	RX-888VBK	
	R711	QRE141J-911Y	C RESISTOR	RX-888RBK	
	R712	QRE141J-911Y	C RESISTOR	RX-888RBK	
	R712	QRE141J-621Y	C RESISTOR	RX-888VBK	
	R713	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R714	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R715	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R716	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R741	QRJ146J-120X	UNF.C.RES. I/M	12 5% 1/4W	
	R742	QRJ146J-120X	UNF.C.RES. I/M	12 5% 1/4W	
	R743	QRL022J-562	UNF.OMF.RES.	5.6K 5% 1/2W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R744	QRK126J-103X	UNF.C.RES. I.M	RX-888VBK ONLY	
	R745	QRE141J-473Y	C RESISTOR	RX-888VBK ONLY	
	R746	QRE141J-103Y	C RESISTOR	RX-888VBK ONLY	
	R751	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R752	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R753	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R754	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R759	QRJ146J-272X	UNF.C.RESISTOR	2.7K 5% 1/4W	
	R760	QRJ146J-272X	UNF.C.RESISTOR	2.7K 5% 1/4W	
	R761	QRJ146J-4R7X	C RESISTOR	4.7 5% 1/4W	
	R762	QRJ146J-4R7X	C RESISTOR	4.7 5% 1/4W	
	R763	QRJ146J-4R7X	C RESISTOR	4.7 5% 1/4W	
	R764	QRJ146J-4R7X	C RESISTOR	4.7 5% 1/4W	
	R765	QRJ146J-120X	UNF.C.RESISTOR	12 5% 1/4W	
	R766	QRJ146J-120X	UNF.C.RESISTOR	12 5% 1/4W	
	R767	QRJ146J-120X	UNF.C.RESISTOR	12 5% 1/4W	
	R768	QRJ146J-120X	UNF.C.RESISTOR	12 5% 1/4W	
	R769	QRJ146J-271X	UNF C RESISTOR	270 5% 1/4W	
	R770	QRJ146J-271X	UNF C RESISTOR	270 5% 1/4W	
	R771	QRE141J-561Y	C RESISTOR	RX-888VBK	
	R771	QRE141J-391Y	C RESISTOR	RX-888RBK	
	R772	QRE141J-391Y	C RESISTOR	RX-888RBK	
	R772	QRE141J-561Y	C RESISTOR	RX-888VBK	
	R773	QRE141J-561Y	C RESISTOR	RX-888VBK	
	R773	QRE141J-391Y	C RESISTOR	RX-888RBK	
	R774	QRE141J-391Y	C RESISTOR	RX-888RBK	
	R774	QRE141J-561Y	C RESISTOR	RX-888VBK	
	R775	QRE141J-201Y	C.RESISTOR	200 5% 1/4W	
	R776	QRE141J-201Y	C.RESISTOR	200 5% 1/4W	
	R777	QRE141J-201Y	C.RESISTOR	200 5% 1/4W	
	R778	QRE141J-201Y	C.RESISTOR	200 5% 1/4W	
	R779	QRZ0197-R22	EMIT RESISTOR	1/1W	
	R780	QRZ0197-R22	EMIT RES.	1/1W	
	R781	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R782	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R783	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R784	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R785	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R786	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R791	QRJ125J-330	UNF.C.RES.	33 5% 1/2W	
	R792	QRJ125J-330	UNF.C.RES.	33 5% 1/2W	
	R793	QRL022J-100	UNF.OMF.RES.	10 5% 1/2W	
	R794	QRL022J-100	UNF.OMF.RES.	10 5% 1/2W	
	R801	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R802	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R823	QRJ146J-122X	UNF.C.RES. I/M	1.2K 5% 1/4W	
	R833	QRJ146J-122X	UNF.C.RES. I/M	1.2K 5% 1/4W	
	R843	QRJ146J-122X	UNF.C.RES. I/M	1.2K 5% 1/4W	
	R851	QRK126J-120X	UNF.C.RES. I.M	12 5% 1/2W	
	R853	QRJ146J-222X	UNF.C.RES. I/M	2.2K 5% 1/4W	
	R855	QRZ9005-271X	F.RESISTOR	270 1/4W	
	R861	QRK126J-120X	UNF.C.RES. I.M	12 5% 1/2W	
	R863	QRJ146J-222X	UNF.C.RES. I/M	2.2K 5% 1/4W	
	R865	QRZ9005-271X	F.RES. I.M	270 1/4W	
	R871	QRJ146J-120X	UNF.C.RES. I/M	12 5% 1/4W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R873	QRJ146J-332X	UNF.C.RES. I/M	3.3K 5% 1/4W	
	R875	QRZ9005-220X	F.RES. I.M	22 1/4W	
	R901	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R902	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R903	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R904	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R905	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R906	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R909	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R911	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R912	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R913	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R914	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R915	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R916	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R917	QRE141J-683Y	C RESISTOR	68K 5% 1/4W	
	R918	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R919	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R920	QRE141J-224Y	C RESISTOR	220K 5% 1/4W	
	R921	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R922	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R931	QRJ146J-120X	UNF.C.RES. I/M	12 5% 1/4W	
	R932	QRJ146J-120X	UNF.C.RES. I/M	12 5% 1/4W	
	R935	QRZ9005-100X	F RESISTOR	RX-888RBK ONLY	
	R936	QRZ9005-100X	F RESISTOR	RX-888RBK ONLY	
	R937	QRZ9005-100X	F RESISTOR	RX-888RBK ONLY	
	R938	QRZ9005-100X	F RESISTOR	TX-888RBK ONLY	
	R971	QRJ146J-120X	UNF.C.RES. I/M	12 5% 1/4W	
	S931	QSW0509-001	SLIDE SW.		
	CN 81	QGB2510J1-08	CONNECTOR		
	CN 82	QGB2510J1-08	CONNECTOR		
	CN 83	QGB2510J1-05	CONNECTOR		
	CN101	QGB2501J1-12	CONNECTOR		
	CN102	QGB2501J1-04	CONNECTOR	RX-888RBK ONLY	
	CN201	QGB2510J1-05	CONNECTOR		
	CN241	QGB2510J1-04	CONNECTOR		
	CN255	QGB2510J1-05	CONNECTOR		
	CN301	QGB2510J1-17	CONNECTOR		
	CN302	QGB2510J1-09	CONNECTOR		
	CN303	QGB2510J1-12	CONNECTOR		
	CN342	QGB2510J1-08	CONNECTOR		
	CN400	QGF1205C1-27	CONNECTOR		
	CN452	QGB2510J1-09	CONNECTOR		
	CN501	QGB1214J3-18S	CONNECTOR		
	CN601	QGB1214J3-12S	CONNECTOR		
	CN704	QGA3901C1-08	8P CONNECTOR		
	CN706	QGB2510J1-12	CONNECTOR		
	CN711	QGA2501C1-02	2P CONNECTOR		
	CN712	QGA2501C1-03	3P CONNECTOR		
	CN801	QJK012-032803	SKT WIRE ASSY		
	CN821	QGD2501C1-05Z	SOCKET I.M		
	CN901	QGD2501C1-03Z	SOCKET I.M		
	CN931	QGD2501C1-04Z	SOCKET I.M		
	CN932	QGD2501C1-03Z	SOCKET I.M		
	CN961	QGD2501C1-03Z	SOCKET I.M		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C1301	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1302	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1303	QDVB1EZ-223Y	C CAPACITOR		
	C1304	QDVB1EZ-223Y	C CAPACITOR		
	C1307	QFLC1HJ-821Z	M.CAPACITOR	820PF 5% 50V	
	C1308	QFLC1HJ-821Z	M.CAPACITOR	820PF 5% 50V	
	C1309	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
	C1310	QFV41HJ-224	CAPACITOR	.22MF 5% 50V	
	C1311	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1312	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1313	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1314	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1315	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1316	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1317	QDVB1EZ-223Y	C CAPACITOR		
	C1318	QDVB1EZ-223Y	C CAPACITOR		
	C1319	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1321	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1322	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1323	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1324	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1325	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1326	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1327	QDVB1EZ-223Y	C CAPACITOR		
	C1328	QDVB1EZ-223Y	C CAPACITOR		
	C1329	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1331	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1332	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1333	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1334	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1335	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1336	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1337	QDVB1EZ-223Y	C CAPACITOR		
	C1338	QDVB1EZ-223Y	C CAPACITOR		
	C1339	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1361	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1362	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1369	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1370	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1371	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1372	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1379	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1380	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1381	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1382	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1389	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1390	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1391	QFLC1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C1392	QFLC1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C1405	QET41CM-226	E CAPACITOR	22MF 20% 16V	
	C1406	QEN41HM-106	NP E CAPACITOR	10MF 20% 50V	
	C1744	QCF31HZ-472Z	C CAPACITOR	RX-888VBK ONLY	
	C1844	QCF31HZ-472Z	C CAPACITOR	RX-888VBK ONLY	
	D1435	1SS133-T2	DIODE		
	D1436	1SS133-T2	DIODE		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D1437	MTZJ4.7B-T2	Z DIODE I M		
	D1438	1SS133-T2	DIODE		
	D1741	MTZJ10C-T2	Z.DIODE I.M	RX-888VBK ONLY	
	D1742	MTZJ15C-T2	Z DIODE	RX-888VBK ONLY	
	D1841	MTZJ10C-T2	Z.DIODE I.M	RX-888VBK ONLY	
	D1842	MTZJ15C-T2	Z DIODE	RX-888VBK ONLY	
	EP801	QNZ0136-001Z	EARTH PLATE		
	FL391	QQR0590-001	FILTER		
	FL392	QQR0590-001	FILTER		
	FW811	QUM133-10Z4Z4	FLAT WIRE		
	FW821	QUM135-08DGZ4	ARA RIBON WIRE		
	FW881	QUM133-26DGZ4	FLAT WIRE		
	FW931	QUM137-16DGZ4	PARA RIBON WIRE		
	HL331	VYH7653-002	IC HOLDER		
	HL332	VYH7653-002	IC HOLDER		
	HL333	VYH7653-002	IC HOLDER		
	HS851	E70306-001	HEAT SINK		
	HS861	E70306-001	HEAT SINK		
	HS871	E70306-001	HEAT SINK		
	IC321	TC9162AN	IC		
	IC331	TC9459F	IC		
	IC332	TC9459F	IC		
	IC333	TC9459F	IC		
	IC361	NJM4580L	IC		
	IC362	BA15218N	IC		
	IC363	BA15218N	IC		
	IC781	VC5022-2	IC		
	IC782	VC5022-2	IC		
	IC901	TA7317P	.IC		
	PW391	QUB220-09HPHP	SIN TWIST WIRE		
	Q1401	2SC2878/AB/-T	TRANSISTOR		
	Q1402	2SC2878/AB/-T	TRANSISTOR		
	Q1405	DTA144ESA-T	D.TRANSISTOR		
	Q1411	2SC2878/AB/-T	TRANSISTOR		
	Q1421	2SC2878/AB/-T	TRANSISTOR		
	Q1422	2SC2878/AB/-T	TRANSISTOR		
	Q1435	2SA933S/RS/-T	TRANSISTOR		
	Q1438	DTA144ESA-T	D.TRANSISTOR		
	Q1741	2SD2061/EF/	TRANSISTOR	RX-888VBK ONLY	
	Q1742	2SC2240/GL/-T	TRANSISTOR I/M	RX-888VBK ONLY	
	Q1841	2SD2061/EF/	TRANSISTOR	RX-888VBK ONLY	
	Q1842	2SC2240/GL/-T	TRANSISTOR I/M	RX-888VBK ONLY	
	RY931	QSK0042-001	RELAY		
	RY932	QSK0042-001	RELAY		
	RY971	QSK0057-001	RELAY		
	R1301	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1302	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1303	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1304	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1305	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R1306	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R1309	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1310	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1311	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1312	QRZ9005-680X	F RESISTOR	68 1/4W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R1313	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1314	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1321	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1322	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1323	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1324	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1331	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1332	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1333	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1334	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1361	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1362	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1363	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1364	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1365	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1366	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1369	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1370	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1371	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1372	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1373	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1374	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1375	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1376	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1379	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1380	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1381	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1382	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1383	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1384	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1385	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1386	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1389	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1390	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1391	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1392	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R1401	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1402	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1403	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1404	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1405	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1406	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1411	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1412	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1421	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1422	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R1423	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1424	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1435	QRE141J-683Y	C RESISTOR	68K 5% 1/4W	
	R1436	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1437	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1438	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1741	QRJ146J-221X	UNF C RES I/M	RX-888VBK	
	R1741	QRJ146J-331X	C RESISTOR	RX-888RBK	
	R1744	QRK126J-103X	UNF.C.RES. I.M	RX-888VBK ONLY	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R1745	QRE141J-473Y	C RESISTOR	RX-888VBK ONLY	
	R1746	QRE141J-103Y	C RESISTOR	RX-888VBK ONLY	
	R1841	QRJ146J-221X	UNF C RES I/M	RX-888VBK	
	R1841	QRJ146J-221X	C RESISTOR	RX-888RBK	
	R1844	QRK126J-103X	UNF.C.RES. I.M	RX-888VBK ONLY	
	R1845	QRE141J-473Y	C RESISTOR	RX-888VBK ONLY	
	R1846	QRE141J-103Y	C RESISTOR	RX-888VBK ONLY	
	ST931	QNB0024-001	SPK.TERMINAL	RX-888RBK	
	ST931	QNB0048-001	SPK.TERMINAL	RX-888VBK	
	TH781	QAD0010-351	THERMISTOR		
	TH782	QAD0010-351	THERMISTOR		
	TP781	QMV5005-004K	4P PLUG ASSY		
	VR787	QVP0004-501Z	V.RESISTOR		
	VR788	QVP0004-501Z	V.RESISTOR		

■ Front P.C.B.

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C400	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C401	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C402	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C403	QEZ0329-10AZ	EDL.CAPACITOR	PF	
	C404	QER41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C405	QDVB1EZ-223Y	C CAPACITOR		
	C406	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	
	C407	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C408	QFV41HJ-104	TF CAPACITOR	.10MF 5% 50V	
	C409	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C410	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C412	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	C413	QDYB1CM-103Y	ABCAPACITOR		
	C414	QDYB1CM-103Y	ABCAPACITOR		
	C477	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C478	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C479	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C480	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C493	QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V	
	C494	QDVB1EZ-223Y	C CAPACITOR		
	C495	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%	
	C497	QDVB1EZ-223Y	C CAPACITOR		
	C498	QFV41HJ-104	TF CAPACITOR	.10MF 5% 50V	
	C499	QEKC0JM-107Z	E CAPACITOR	100MF 20% 6.3V	
	D400	1SR139-200-T4	DIODE I.M		
	D401	1SR139-200-T4	DIODE I.M		
	D402	1SR139-200-T4	DIODE I.M		
	D404	1SS133-T2	DIODE		
	D405	1SS133-T2	DIODE	RX-888VBK ONLY	
	D406	1SS133-T2	DIODE	RX-888VBK ONLY	
	D407	1SS133-T2	DIODE	RX-888VBK ONLY	
	D408	1SS133-T2	DIODE	RX-888VBK ONLY	
	D409	1SS133-T2	DIODE	RX-888VBK ONLY	
	D410	1SS133-T2	DIODE		
	D411	1SS133-T2	DIODE		
	D412	1SS133-T2	DIODE		
	D413	1SS133-T2	DIODE		
	D414	1SS133-T2	DIODE	RX-888RBK ONLY	
	D415	1SS133-T2	DIODE	RX-888RBK ONLY	
	D418	1SS133-T2	DIODE		
	D419	1SS133-T2	DIODE	RX-888RBK ONLY	
	D420	1SS133-T2	DIODE		
	D430	SLR-342VC-T	LED I.M	(DVD)	
	D431	SLR-342VC-T	LED I.M	(TV)	
	D432	SLR-342VC-T	LED I.M	(VCR1)	
	D433	SLR-342VC-T	LED I.M	(VCR2)	
	D434	SLR-342VC-T	LED I.M	(VIDEO)	
	D435	SLR-342VC-T	LED I.M	(AM)	
	D436	SLR-342VC-T	LED I.M	(FM)	
	D437	SLR-342VC-T	LED I.M	(TAPE)	
	D438	SLR-342VC-T	LED I.M	(PHONO)	
	D439	SLR-342VC-T	LED I.M	(CD)	
	D440	SLR-342VC-T	LED I.M	(SURROUND)	
	D442	SLR-342VC-T	LED I.M	(OTO)	
	D481	SLR-342VC-T	LED I.M	(STANDBY)	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	D482	SLR-342VC-T	LED I.M	(SPK1)	
	D483	SPR-325MVW/L/-T	LED	(SPK2)	
	D484	SLR-342DC-T	LED I.M	(DTS)	
	D486	SLR-342DC-T	LED I.M	(DOLBY)	
	D487	SLR-342DC-T	LED I.M	(PCM)	
	D493	1SS133-T2	DIODE		
	J400	QND0026-001	S JACK		
	Q401	DTC114YSA-T	D.TRANSISTOR		
	Q402	DTC114TSA-T	D.TRANSISTOR		
	Q403	DTC144WSA-T	DIGI TRANSISTOR		
	Q404	DTC114YSA-T	D.TRANSISTOR	RX-888VBK ONLY	
	Q405	DTC144ESA-T	D.TRANSISTOR	RX-888VBK ONLY	
	Q406	DTC114YSA-T	D.TRANSISTOR	RX-888VBK ONLY	
	Q407	DTC114YSA-T	D.TRANSISTOR		
	Q408	DTC114YSA-T	D.TRANSISTOR		
	Q409	DTC144ESA-T	D.TRANSISTOR		
	Q410	DTC144ESA-T	D.TRANSISTOR		
	Q411	DTC144ESA-T	D.TRANSISTOR		
	Q412	DTC144ESA-T	D.TRANSISTOR		
	Q413	DTA114YSA-T	D.TRANSISTOR		
	Q414	DTA114YSA-T	D.TRANSISTOR		
	Q415	DTA114YSA-T	D.TRANSISTOR		
	Q416	DTA114YSA-T	D.TRANSISTOR		
	Q442	DTA114YSA-T	D.TR.I.M		
	Q488	DTA114YSA-T	D.RESISTOR		
	R400	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R401	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R402	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R403	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R404	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R405	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R406	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R407	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R408	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R410	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R411	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R412	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R414	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R415	QRE141J-103Y	C RESISTOR	RX-888VBK ONLY	
	R416	QRE141J-103Y	C RESISTOR	RX-888VBK ONLY	
	R417	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R418	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R423	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R424	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R425	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R426	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R427	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R430	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R431	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R433	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R434	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R435	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R436	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R437	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R438	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R439	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R440	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R441	QRE141J-474Y	C RESISTOR	(PULLDOWN)	
	R442	QRE141J-474Y	C RESISTOR	(PULLDOWN)	
	R443	QRE141J-474Y	C RESISTOR	(PULLDOWN)	
	R445	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R446	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R447	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R448	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R449	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R450	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R451	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R452	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R453	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R454	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R455	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R456	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R457	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R458	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R459	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R460	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R461	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R462	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R463	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R464	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R465	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R466	QRE141J 102Y	C RESISTOR	1.0K 5% 1/4W	
	R468	QRE141J-271Y	C RESISTOR	270 5% 1/4W	
	R471	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R472	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R474	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R475	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R476	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R477	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R478	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R479	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R483	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R484	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R485	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R487	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R488	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R490	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R495	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R496	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R497	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R498	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R499	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R881	QRZ0209-3R3	RESISTOR	3.3 1/2W	
	R882	QRZ0209-3R3	RESISTOR	3.3 1/2W	
	R883	QRZ0209-3R3	RESISTOR	3.3 1/2W	
	R884	QRZ0209-3R3	RESISTOR	3.3 1/2W	
	S400	QSW0683-001Z	PUSH SW I.M	(POWER)	
	S401	QSW0683-001Z	PUSH SW I.M	(SPK1)	
	S402	QSW0683-001Z	PUSH SW I.M	(SPK2)	
	S403	QSW0683-001Z	PUSH SWITCH	RX-888RBK ONLY	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	S404	QSW0683-001Z	PUSH SWITCH	RX-888RBK ONLY	
	S405	QSW0683-001Z	PUSH SWITCH	RX-888RBK ONLY	
	S406	QSW0683-001Z	PUSH SWITCH	RX-888RBK ONLY	
	S407	QSW0683-001Z	PUSH SW I.M	(SURROUND)	
	S408	QSW0683-001Z	PUSH SWITCH	(DIGITAL)	
	S409	QSW0683-001Z	PUSH SWITCH	(DSP MODE)	
	S410	QSW0683-001Z	PUSH SWITCH	(LOUDNESS)	
	S411	QSW0683-001Z	PUSH SWITCH	(SEA MODE)	
	S412	QSW0683-001Z	PUSH SWITCH	(SEA ADJ)	
	S413	QSW0683-001Z	PUSH SWITCH	(FM MODE)	
	S414	QSW0683-001Z	PUSH SWITCH	(ADJUST)	
	S415	QSW0683-001Z	PUSH SWITCH	(S.SELECT)	
	S416	QSW0683-001Z	PUSH SWITCH	(TUNING)	
	S417	QSW0683-001Z	PUSH SWITCH	(PRESET)	
	S418	QSW0683-001Z	PUSH SWITCH	(MEMORY)	
	S419	QSW0683-001Z	PUSH SWITCH	(SETTING)	
	S420	QSW0683-001Z	PUSH SWITCH	(OTO)	
	X400	QAX0112-001Z	RESONATOR I.M		
	X401	QAX0246-001Z	RESONATOR I.M		
	BK499	E70225-003SS	EARTH PLAT		
	CN 61	QGB2510K1-08	CONNECTOR		
	CN 62	QGB2510K1-08	CONNECTOR		
	CN 63	QGB2510K1-05	CONNECTOR		
	CN 71	QGB2510K1-08	CONNECTOR		
	CN 72	QGB2510K1-08	CONNECTOR		
	CN 73	QGB2510K1-05	CONNECTOR		
	CN341	QGB2510K1-08	CONNECTOR		
	CN406	WJP0003-001A	SKT WIRE ASSY	(VIDEO)	
	CN410	QGF1205F1-27	CONNECTOR		
	CN412	QGF1210G1-21	CONNECTOR		
	CN420	QJB002-100800	SKT WIRE	(LEFT)	
	CN422	QGA2001F1-14	14P PLUG ASSY		
	CN430	QGA2001F1-10	10P PLUG ASSY		
	CN432	QJB002-140804	SKT WIRE ASSY		
	CN450	QJB001-104000	10PIN SKT WIR	(VIDEO)	
	CN451	QGB2510K1-09	CONNECTOR		
	CN881	QGD2501C1-03Z	SOCKET I.M		
	C1341	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1342	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1343	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1346	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C1347	QFLC1HJ-123Z	M CAPACITOR	.012MF 5% 50V	
	C1349	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1350	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1351	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1352	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1355	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1356	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1451	QER41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1452	QER41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1453	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1454	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1455	QER41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1456	QER41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1457	QER41HM-475	E CAPACITOR	4.7MF 20% 50V	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C1458	QER41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1459	QER41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1460	QER41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1461	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1462	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1463	QDVB1EZ-223Y	C CAPACITOR		
	C1464	QDVB1EZ-223Y	C CAPACITOR		
	C1465	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1469	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C1470	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C1471	QFV41HJ-333	CAPACITOR	.033MF 5% 50V	
	C1472	QFV41HJ-333	CAPACITOR	.033MF 5% 50V	
	C1473	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1474	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C1475	QFLC1HJ-332Z	M CAPACITOR	3300PF 5% 50V	
	C1476	QFLC1HJ-332Z	M CAPACITOR	3300PF 5% 50V	
	C1477	QFV41HJ-104	TF CAPACITOR	.10MF 5% 50V	
	C1478	QFV41HJ-104	TF CAPACITOR	.10MF 5% 50V	
	C1479	QCS11HJ-331	C CAPACITOR	330PF 5% 50V	
	C1480	QCS11HJ-331	C CAPACITOR	330PF 5% 50V	
	C1481	QFV41HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C1482	QFV41HJ-103	TF CAPACITOR	.010MF 5% 50V	
	C1483	QER41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1484	QER41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C1487	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1488	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	DI400	QLF0042-001	FL TUBE		
	D1351	MTZJ5.1C-T2	ZENER DIODE		
	D1352	MTZJ5.1C-T2	ZENER DIODE		
	D1451	MTZJ6.8C-T2	Z DIODE I/M		
	D1452	MTZJ6.8C-T2	Z DIODE I/M		
	D1453	MTZJ5.1C-T2	ZENER DIODE		
	FS400	E3400-444	FELT SPACER		
	FS401	E3400-444	FELT SPACER		
	HL400	VYH7653-001	IC HOLDER		
	HL401	VYH7237-003	IC HOLDER		
	IC341	BU4051BC	IC		
	IC342	BA15218N	IC		
	IC343	BA15218N	IC		
	IC400	MN172412JABZ	IC		
	IC401	MN101C15FBC	IC	(M.P.)	
	IC402	BU2092	IC		
	IC403	IC-PST600/E/-T	IC I.M		
	IC404	GP1U271X	RM RECIVER		
	IC405	BU2092	IC		
	IC451	LC7522	IC		
	IC452	M5243AP12	IC		
	IC453	BA15218N	IC		
	JS400	QSW0502-001	SW		
	JS401	QSW0672-001	ROTARY ENCODER	(MULTI)	
	JS402	QSW0672-001	ROTARY ENCODER	(SOURCE)	
	R1341	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1342	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1343	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1344	QRE141J-203Y	C RESISTOR	20K 5% 1/4W	

BLOCK NO. 02

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R1345	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	
	R1346	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R1347	QRE141J-132Y	C.RESISTOR	1.3K 5% 1/4W	
	R1348	QRE141J-182Y	C RESISTOR	1.8K 5% 1/4W	
	R1349	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1350	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1351	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1352	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1353	QRE141J-682Y	C RESISTOR	6.8K 5% 1/4W	
	R1354	QRE141J-752Y	C RESISTOR	7.5K 5% 1/4W	
	R1355	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1356	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1357	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1358	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1359	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1360	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1451	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1452	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1453	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1454	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1457	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1458	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1459	QRE141J-113Y	C RESISTOR	11K 5% 1/4W	
	R1460	QRE141J-113Y	C RESISTOR	11K 5% 1/4W	
	R1461	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1462	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1463	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R1464	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R1465	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R1466	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R1471	QRJ146J-561X	UNF.C.RES. I/M	560 5% 1/4W	
	R1472	QRJ146J-561X	UNF.C.RES. I/M	560 5% 1/4W	
	R1473	QRJ146J-681X	UNF C RES I/M	680 5% 1/4W	
	R1475	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1476	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1477	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1478	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1479	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1480	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R1481	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1482	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1483	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1484	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R1485	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1486	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1487	QRZ9005-680X	F RESISTOR	68 1/4W	
	R1488	QRZ9005-680X	F RESISTOR	68 1/4W	

■ AC Supply P.C.B.

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C705	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C706	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C710	QCS32HJ-220Z	C.CAPACITOR	22PF 5% 500V	
	C711	QFLC1HJ-152Z	M CAPACITOR	1500PF 5% 50V	
	C712	QFLC1HJ-152Z	M CAPACITOR	1500PF 5% 50V	
	C713	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C714	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C715	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C716	QCS11HJ-680	C CAPACITOR	68PF 5% 50V	
	C717	QCS32HJ-220Z	C.CAPACITOR	22PF 5% 500V	
	C951	QFLC1HJ-102Z	M CAPACITOR	RX-888RBK ONLY	
	C953	QCS31HJ-221Z	C CAPACITOR	RX-888RBK ONLY	
	C954	QFLC1HJ-272Z	M CAPACITOR	RX-888RBK ONLY	
	C955	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK ONLY	
	C956	QCS31HJ-221Z	C CAPACITOR	RX-888RBK ONLY	
	C957	QFLC1HJ-223Z	M CAPACITOR	RX-888RBK ONLY	
	C958	QFLC1HJ-223Z	M CAPACITOR	RX-888RBK ONLY	
	C959	QCS31HJ-221Z	C CAPACITOR	RX-888RBK ONLY	
	C960	QCS31HJ-221Z	C CAPACITOR	RX-888RBK ONLY	
	C968	QDGB1HK-102Y	C CAPACITOR	RX-888RBK ONLY	
	C969	QDGB1HK-102Y	C CAPACITOR	RX-888RBK ONLY	
	C970	QDGB1HK-102Y	C CAPACITOR	RX-888RBK ONLY	
	D701	1SS133-T2	DIODE		
	D702	1SS133-T2	DIODE		
	D703	1SS133-T2	DIODE		
	D704	1SS133-T2	DIODE		
	D951	1SS133-T2	DIODE		
	D952	1SS133-T2	DIODE		
	Q701	2SC2240-BL/AB/	TRANSISTOR		
	Q702	2SC2240-BL/AB/	TRANSISTOR		
	Q703	2SC2240-BL/AB/	TRANSISTOR		
	Q704	2SC2240-BL/AB/	TRANSISTOR		
	Q705	2SA1038S/SE/-T	TRANSISTOR		
	Q706	2SA1038S/SE/-T	TRANSISTOR		
	Q707	2SA933AS/RS/-T	TRANSISTOR		
	Q708	2SA933AS/RS/-T	TRANSISTOR		
	Q709	2SA1038S/SE/-T	TRANSISTOR		
	Q710	2SA1038S/SE/-T	TRANSISTOR		
	Q711	2SC2389S/SE/-T	TRANSISTOR		
	Q712	2SC2389S/SE/-T	TRANSISTOR		
	R 61	QRT012J-R22	UNF.MF.RES	RX-888RBK ONLY	
	R 62	QRT012J-R22	UNF.MF.RES	RX-888RBK ONLY	
	R705	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R706	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R707	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R708	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R709	QRE141J-912Y	C RESISTOR	9.1K 5% 1/4W	
	R710	QRE141J-912Y	C RESISTOR	9.1K 5% 1/4W	
	R717	QRJ146J-562X	UNF.C.RES. I/M	5.6K 5% 1/4W	
	R718	QRJ146J-562X	UNF.C.RES. I/M	5.6K 5% 1/4W	
	R719	QRK126J-103X	UNF.C.RES. I.M	10K 5% 1/2W	
	R720	QRK126J-103X	UNF.C.RES. I.M	10K 5% 1/2W	
	R721	QRJ146J-151X	C RESISTOR	150 5% 1/4W	
	R722	QRJ146J-151X	C RESISTOR	150 5% 1/4W	
	R723	QRE141J-391Y	C RESISTOR	390 5% 1/4W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R724	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R725	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R726	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R727	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R728	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R729	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R730	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R731	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R732	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R733	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R734	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R951	QRJ146J-120X	UNF.C.RES. I/M	12 5% 1/4W	
	R952	QRJ146J-120X	UNF.C.RES. I/M	12 5% 1/4W	
	R955	QRJ146J-2R7X	UNF.C.RES. I/M	RX-888RBK ONLY	
	R957	QRJ146J-2R7X	UNF.C.RES. I/M	RX-888RBK ONLY	
	R958	QRJ146J-2R7X	UNF.C.RES. I/M	RX-888RBK ONLY	
⚠	C 1	QCZ9019-472	C.CAPACITOR	4700PF	
	C 51	QFN32AK-472Z	M.CAPACITOR	4700PF 10% 100V	
	C 52	QET41EM-108	E CAPACITOR	1000MF 20% 25V	
	C 54	QET41CM-477	E CAPACITOR	470MF 20% 16V	
	C 55	QCF31HZ-472Z	C CAPACITOR	4700PF +80:-20%	
	C 61	QFN32AJ-104Z	M.CAPACITOR	.10MF 5% 100V	
	C 62	QFN32AJ-104Z	M.CAPACITOR	.10MF 5% 100V	
	C 63	QFN32AJ-104Z	M.CAPACITOR	.10MF 5% 100V	
	C 65	QETM1VM-338	E CAPACITOR	3300MF 20% 35V	
	C 66	QETM1VM-228	E.CAPACITOR	2200MF 20% 35V	
	C 67	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C 68	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 69	QFLC1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 70	QETN1HM-227Z	E CAPACITOR	220MF 20% 50V	
	C 71	QETN1JM-227Z	E CAPACITOR	220MF 20% 63V	
	C 72	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C 73	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C 74	QET41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 93	QCBB1HK-331Y	C CAPACITOR	RX-888RBK ONLY	
	C 94	QCBB1HK-331Y	C CAPACITOR	RX-888RBK ONLY	
	CN 51	QGB2510J1-08	CONNECTOR		
	CN 52	QGB2510J1-08	CONNECTOR		
	CN 53	QGB2510J1-05	CONNECTOR		
	CN 55	QGD2501C1-03Z	SOCKET I.M	RX-888VBK ONLY	
	CN 55	QGD2501C1-03Z	SOCKET I.M	RX-888RBK ONLY	
	CN 56	QGD2501C1-04Z	SOCKET I.M	RX-888RBK ONLY	
	CN 56	QGD2501C1-04Z	SOCKET I.M	RX-888VBK ONLY	
	CN402	QGF1205C1-21	CONNECTOR		
	CN701	QJP002-021401	SKT WIRE ASSY		
	CN702	QJP001-031401	SHI CR C-B WIRE		
	CN703	WJK0034-001A	SKT WIRE ASSY	(WITH CN803)	
	CN705	QGB2510K1-12	CONNECTOR		
	CN811	QGA3901F2-03	CONNECTOR	RX-888VBK ONLY	
	CN811	QGA3901F2-03	CONNECTOR	RX-888RBK ONLY	
	CN951	QJL005-063201	SKT WIRE ASSY		
	C1701	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1702	QCS31HJ-101Z	C CAPACITOR	RX-888VBK	
	C1702	QCS31HJ-470Z	C CAPACITOR	RX-888RBK	
	C1703	QCS31HJ-221Z	C CAPACITOR	RX-888RBK	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C1703	QCS31HJ-101Z	C CAPACITOR	RX-888VBK	
	C1704	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1705	QCS11HJ-100Z	C CAPACITOR	RX-888RBK	
	C1705	QCS11HJ-5R0	C CAPACITOR	RX-888VBK	
	C1711	QCS32HJ-330Z	C.CAPACITOR	33PF 5% 500V	
	C1712	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C1713	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C1715	QET41HM-476	E CAPACITOR	47MF 20% 50V	
	C1741	QETN2AM-476Z	E CAPACITOR	RX-888VBK	
	C1741	QETN1JM-476Z	E CAPACITOR	RX-888RBK	
	C1742	QETN1JM-476Z	E CAPACITOR	RX-888RBK	
	C1742	QETN2AM-476Z	E CAPACITOR	RX-888VBK	
	C1743	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1751	QCS32HJ-470Z	C.CAPACITOR	47PF 5% 500V	
	C1752	QCS32HJ-470Z	C.CAPACITOR	47PF 5% 500V	
	C1761	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK ONLY	
	C1761	QFLC1HJ-473Z	M CAPACITOR	RX-888VBK C	
	C1762	QFLC1HJ-473Z	M CAPACITOR	RX-888VBK C	
	C1762	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK	
	C1762	QFLC1HJ-223Z	M CAPACITOR	RX-888VBK J	
	C1791	QCF31HZ-223Z	C.CAPACITOR	RX-888VBK J	
	C1801	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1802	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1803	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1804	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C1805	QCS31HJ-221Z	C CAPACITOR	RX-888RBK	
	C1805	QCS31HJ-101Z	C CAPACITOR	RX-888VBK	
	C1806	QCS31HJ-101Z	C CAPACITOR	RX-888VBK	
	C1806	QCS31HJ-221Z	C CAPACITOR	RX-888RBK	
	C1807	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1808	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C1809	QCS11HJ-5R0	C CAPACITOR	5.0PF 5% 50V	
	C1810	QCS11HJ-5R0	C CAPACITOR	5.0PF 5% 50V	
	C1811	QCS32HJ-330Z	C.CAPACITOR	33PF 5% 500V	
	C1812	QCS32HJ-330Z	C.CAPACITOR	33PF 5% 500V	
	C1813	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C1814	QFLC1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C1815	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C1816	QEK41HM-225	E CAPACITOR	2.2MF 20% 50V	
	C1817	QET41HM-476	E CAPACITOR	47MF 20% 50V	
	C1818	QET41HM-476	E CAPACITOR	47MF 20% 50V	
	C1841	QETN2AM-476Z	E CAPACITOR	RX-888VBK	
	C1841	QETN1JM-476Z	E CAPACITOR	RX-888RBK	
	C1842	QETN1JM-476Z	E CAPACITOR	RX-888RBK	
	C1842	QETN2AM-476Z	E CAPACITOR	RX-888VBK	
	C1843	QETN1HM-106Z	E CAPACITOR	10MF 20% 50V	
	C1851	QCS32HJ-470Z	C.CAPACITOR	47PF 5% 500V	
	C1852	QCS32HJ-470Z	C.CAPACITOR	47PF 5% 500V	
	C1853	QCS32HJ-470Z	C.CAPACITOR	47PF 5% 500V	
	C1854	QCS32HJ-470Z	C.CAPACITOR	47PF 5% 500V	
	C1861	QFLC1HJ-473Z	M CAPACITOR	RX-888VBK C	
	C1861	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK ONLY	
	C1862	QFLC1HJ-473Z	M CAPACITOR	RX-888VBK C	
	C1862	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK ONLY	
	C1863	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK/VBK C	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C1863	QFLC1HJ-223Z	M CAPACITOR	RX-888VBK J	
	C1864	QFLC1HJ-223Z	M CAPACITOR	RX-888VBK	
	C1864	QFLC1HJ-473Z	M CAPACITOR	RX-888RBK/VBK C	
	C1891	QCF31HZ-223Z	C.CAPACITOR	.022MF +80:-20%	
	C1892	QCF31HZ-223Z	C.CAPACITOR	.022MF +80:-20%	
⚠	D 51	1SR139-200-T4	DIODE I.M		
⚠	D 52	1SR139-200-T4	DIODE I.M		
⚠	D 53	1SR139-200-T4	DIODE I.M		
⚠	D 54	1SR139-200-T4	DIODE I.M		
	D 56	MTZJ6.2A-T2	Z.DIODE IDM		
	D 57	1SS133-T2	DIODE		
⚠	D 61	10E2-FD	DIODE		
⚠	D 62	1SR139-200-T4	DIODE I.M		
⚠	D 63	10E2-FD	DIODE		
⚠	D 64	1SR139-200-T4	DIODE I.M		
	D 65	1SS133-T2	DIODE		
	D 66	1SS133-T2	DIODE	RX-888VBK J	
	D 67	1SS133-T2	DIODE	RX-888VBK C	
	D 68	1SS133-T2	DIODE	RX-888VBK C	
	D 71	1SR139-200-T4	DIODE I.M		
	D 72	1SR139-200-T4	DIODE I.M		
	D 73	1SR139-200-T4	DIODE I.M		
	D 74	MTZJ33C-T2	Z DIODE I M		
	D 75	MTZJ6.2C-T2	ZENER DIODE		
	D1701	1SS133-T2	DIODE		
	D1702	MTZJ18C-T2	Z.DIODE I.M		
	D1771	1SS133-T2	DIODE		
	D1772	1SS133-T2	DIODE		
	D1791	1SS133-T2	DIODE		
	D1801	1SS133-T2	DIODE		
	D1802	1SS133-T2	DIODE		
	D1805	MTZJ18C-T2	Z.DIODE I.M		
	D1871	1SS133-T2	DIODE		
	D1872	1SS133-T2	DIODE		
	D1873	1SS133-T2	DIODE		
	D1874	1SS133-T2	DIODE		
	D1891	1SS133-T2	DIODE		
	D1892	1SS133-T2	DIODE		
	EP 1	E409182-001SM	GRAND TERMINAL		
	EP 2	QNZ0136-001Z	EARTH PLATE		
	EP 51	QNZ0136-001Z	EARTH PLATE		
	FC 1	QNG0020-001Z	FUSE CLIP	F001	
	FC 2	QNG0020-001Z	FUSE CLIP	F001	
	FC 3	QNG0020-001Z	FUSE CLIP	RX-888RBK ONLY	
	FC 4	QNG0020-001Z	FUSE CLIP	RX-888RBK ONLY	
	FC 61	QNG0020-001Z	FUSE.CLIP I.M	RX-888RBK ONLY	
	FC 61	QNG0020-001Z	FUSE CLIP	RX-888VBK ONLY	
	FC 62	QNG0020-001Z	FUSE CLIP	RX-888VBK ONLY	
	FC 62	QNG0020-001Z	FUSE.CLIP I.M	RX-888RBK ONLY	
	FC 63	QNG0020-001Z	FUSE.CLIP I.M	RX-888RBK ONLY	
	FC 63	QNG0020-001Z	FUSE CLIP	RX-888VBK ONLY	
	FC 64	QNG0020-001Z	FUSE CLIP	RX-888VBK ONLY	
	FW 51	QUM137-10DGZ4	PARA RIBON WIRE		
	FW901	QUM133-08DGZ4	PARA RIBON WIRE		
	FW961	QUM133-15DGZ4	PARA RIBON WIRE		

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	J 91	QNS0023-001	JACK		
	L1761	QQLZ005-R45	INDUCTOR	RX-888VBK	
	L1762	QQLZ005-R45	INDUCTOR	RX-888RBK ONLY	
	L1861	QQLZ005-R45	INDUCTOR		
	L1862	QQLZ005-R45	INDUCTOR		
	L1863	QQLZ005-R45	INDUCTOR	RX-888RBK ONLY	
	L1864	QQLZ005-R45	INDUCTOR	RX-888RBK ONLY	
	Q 52	2SC2235/OY/-T	TR.I/M		
	Q 53	DTC123YSA-T	D.TRANSISTOR		
	Q 61	DTC114YSA-T	D.TR.I.M		
	Q 71	2SB1357/EF/-T	TR.I/M		
	Q 72	DTC114ESA-T	D.TRANSISTOR		
	Q 73	DTA144ESA-T	D.TRANSISTOR		
	Q 74	2SC2240/GL/-T	TRANSISTOR I/M		
	Q1701	2SC2240-BL/AB/	TRANSISTOR		
	Q1702	2SC2240-BL/AB/	TRANSISTOR		
	Q1703	2SA1038S/S/-T	TRANSISTOR		
	Q1731	2SD637/QR/	TRANSISTOR		
	Q1771	2SC2389S/SE/-T	TRANSISTOR		
	Q1772	2SA1038S/SE/-T	TRANSISTOR		
	Q1791	2SC2389S/SE/-T	TRANSISTOR		
	Q1801	2SC2240-BL/AB/	TRANSISTOR		
	Q1802	2SC2240-BL/AB/	TRANSISTOR		
	Q1803	2SC2240-BL/AB/	TRANSISTOR		
	Q1804	2SC2240-BL/AB/	TRANSISTOR		
	Q1805	2SA1038S/S/-T	TRANSISTOR		
	Q1806	2SA1038S/S/-T	TRANSISTOR		
	Q1831	2SD637/QR/	TRANSISTOR		
	Q1832	2SD637/QR/	TRANSISTOR		
	Q1871	2SC2389S/SE/-T	TRANSISTOR		
	Q1872	2SC2389S/SE/-T	TRANSISTOR		
	Q1873	2SA1038S/SE/-T	TRANSISTOR		
	Q1874	2SA1038S/SE/-T	TRANSISTOR		
	Q1891	2SC2389S/SE/-T	TRANSISTOR		
	Q1892	2SC2389S/SE/-T	TRANSISTOR		
⚠	R 1	QRZ9044-335	COMP.RESISTOR	RX-888VBK ONLY	
⚠	R 53	QRZ9015-3R9	F RESISTOR	RX-888RBK	
⚠	R 53	QRJ146J-3R9X	UNF.C.RES. I/M	RX-888VBK	
	R 54	QRE141J-821Y	C RESISTOR	820 5% 1/4W	
⚠	R 55	QRT022J-1R0	MF RESISTOR	1.0 5% 1/2W	
	R 61	QRT012J-R22	UNF.MF.RES.	RX-888VBK ONLY	
	R 62	QRT012J-R22	UNF.MF.RES.	RX-888VBK ONLY	
⚠	R 66	QRJ146J-2R2X	C RESISTOR	2.2 5% 1/4W	
⚠	R 67	QRJ146J-120X	UNF.C.RES. I/M	12 5% 1/4W	
	R 68	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 69	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R 70	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 72	QRJ146J-332X	UNF.C.RES. I/M	3.3K 5% 1/4W	
	R 73	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 74	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 91	QRL022J-471	UNF OMF.RES.	470 5% 1/2W	
	R 92	QRL022J-471	UNF OMF.RES.	470 5% 1/2W	
⚠	RY 1	QSK0098-001	RELAY		
	RY 61	QSK0082-001	RELAY	RX-888VBK J	
	RY 61	QSK0082-001	RELAY	RX-888RBK ONLY	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	RY 62	QSK0088-001	RELAY	RX-888VBK C	
	RY 63	QSK0088-001	RELAY	RX-888VBK C	
	RY951	QSK0042-001	RELAY		
	RY952	QSK0042-001	RELAY		
	R1701	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1702	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1703	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R1705	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1711	QRE141J-621Y	C RESISTOR	RX-888VBK	
	R1711	QRE141J-911Y	C RESISTOR	RX-888RBK	
	R1712	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1721	QRJ146J-221X	UNF C RES I/M	220 5% 1/4W	
	R1722	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1723	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1724	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1725	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1731	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R1732	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1742	QRJ146J-331X	C RESISTOR	RX-888RBK	
	R1742	QRJ146J-221X	UNF C RES I/M	RX-888VBK	
	R1743	QRL022J-562	UNF.OMF.RES.	5.6K 5% 1/2W	
	R1751	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R1752	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R1753	QRZ0197-R22	EMIT RESISTOR	1/1W	
	R1761	QRJ125J-330	UNF.C.RESISTOR	33 5% 1/2W	
	R1762	QRL022J-100	UNF.OMF.RESISTO	10 5% 1/2W	
	R1771	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1772	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1773	QRE141J-201Y	C.RESISTOR	200 5% 1/4W	
	R1774	QRE141J-201Y	C.RESISTOR	200 5% 1/4W	
	R1791	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1792	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1793	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1794	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1801	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1802	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R1803	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1804	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1805	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R1806	QRE141J-202Y	C RESISTOR	2.0K 5% 1/4W	
	R1809	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1810	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1811	QRE141J-621Y	C RESISTOR	RX-888VBK	
	R1811	QRE141J-911Y	C RESISTOR	RX-888RBK	
	R1812	QRE141J-621Y	C RESISTOR	RX-888VBK	
	R1813	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1814	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1821	QRJ146J-221X	UNF C RES I/M	220 5% 1/4W	
	R1822	QRJ146J-221X	UNF C RES I/M	220 5% 1/4W	
	R1822	QRE141J-911Y	C RESISTOR	RX-888RBK	
	R1823	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1824	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1825	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1826	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1827	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R1828	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1829	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1830	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R1831	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R1832	QRE141J-751Y	C RESISTOR	750 5% 1/4W	
	R1833	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1834	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1842	QRJ146J-221X	UNF C RES I/M	RX-888VBK	
	R1842	QRJ146J-331X	C RESISTOR	RX-888RBK	
	R1843	QRL022J-562	UNF.OMF.RES.	5.6K 5% 1/2W	
	R1851	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R1852	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R1853	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R1854	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R1855	QRZ0197-R22	EMIT RESISTOR	1/1W	
	R1856	QRZ0197-R22	EMIT RESISTOR	1/1W	
	R1861	QRJ125J-330	UNF.C.RESISTOR	33 5% 1/2W	
	R1862	QRJ125J-330	UNF.C.RESISTOR	33 5% 1/2W	
	R1863	QRL022J-100	UNF.OMF.RESISTO	10 5% 1/2W	
	R1864	QRL022J-100	UNF.OMF.RESISTO	10 5% 1/2W	
	R1871	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1872	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1873	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1874	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R1875	QRE141J-201Y	C.RESISTOR	200 5% 1/4W	
	R1876	QRE141J-201Y	C.RESISTOR	200 5% 1/4W	
	R1877	QRE141J-201Y	C.RESISTOR	200 5% 1/4W	
	R1878	QRE141J-201Y	C.RESISTOR	200 5% 1/4W	
	R1891	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1892	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R1893	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1894	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R1895	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1896	QRE141J-123Y	C RESISTOR	12K 5% 1/4W	
	R1897	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R1898	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	ST951	QNB0078-001	SPK TERMINAL	RX-888VBK	
	ST951	QNB0079-001	SPK TERMINAL	RX-888RBK	
⚠	T 2	ETP1000-41EA	POWER TRANS	RX-888RBK	
⚠	T 2	ETP1000-41JA	POWER TRANS	RX-888VBK	
	TA 1	QNZ0079-001Z	TAB I.M		
	TA 2	QNZ0079-001Z	TAB I.M		
⚠	TH 71	QAD0095-4R7Z	POSISTOR I.M		
	TH731	QAD0012-202	THERMISTOR		
	TH831	QAD0012-202	THERMISTOR		
	TH832	QAD0012-202	THERMISTOR		

■ Input P.C.B.

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C201	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C202	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C203	QETNOJM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C204	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C205	QETNOJM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C206	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C207	QETNOJM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C208	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C209	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C210	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C211	QETN1HM-107Z	E CAPACITOR	100MF 20% 50V	
	C212	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C213	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C214	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C215	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C216	QDX31EM-473Z	C CAPACITOR		
	C217	QET41AM-477	E CAPACITOR	470MF 20% 10V	
	C218	QCZ0202-155Z	ML C CAPACITOR	1.5MF	
	C219	QDC31HJ-150Z	C CAPACITOR		
	C220	QDC31HJ-100Z	C.CAPACITOR		
	C221	QDC31HJ-470Z	C.CAPACITOR		
	C222	QDC31HJ-270Z	C.CAPACITOR		
	C223	QDGB1HK-102Y	C CAPACITOR		
	C224	QCBB1HK-271Y	C CAPACITOR	270PF 10% 50V	
	C225	QCBB1HK-121Y	C CAPACITOR	120PF 10% 50V	
	C241	QDX31EM-473Z	C CAPACITOR		
	C242	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C244	QDX31EM-473Z	C CAPACITOR		
	C245	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C246	QDX31EM-473Z	C CAPACITOR		
	C247	QETNOJM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C249	QDX31EM-473Z	C CAPACITOR		
	C250	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C251	QDX31EM-473Z	C CAPACITOR		
	C252	QETNOJM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C253	QCSB1HJ-100Y	C.CAPACITOR	RX-888RBK ONLY	
	C254	QDX31EM-473Z	C CAPACITOR		
	C255	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C256	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C257	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C258	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C259	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C260	QDX31EM-473Z	C CAPACITOR		
	C261	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C268	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C269	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C270	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C271	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C277	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C301	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C302	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C303	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C304	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C305	QFLC1HJ-182Z	M CAPACITOR	1800PF 5% 50V	
	C306	QFLC1HJ-182Z	M CAPACITOR	1800PF 5% 50V	
	C307	QFLC1HJ-682Z	M CAPACITOR	6800PF 5% 50V	
	C308	QFLC1HJ-682Z	M CAPACITOR	6800PF 5% 50V	
	C309	QCS11HJ-101	C CAPACITOR	100PF 5% 50V	
	C310	QCS11HJ-101	C CAPACITOR	100PF, 5% 50V	
	C311	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C312	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C313	QET41CM-107	E CAPACITOR	100MF 20% 16V	
	C314	QET41CM-107	E CAPACITOR	100MF 20% 16V	
	C315	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C316	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C317	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C318	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C319	QCF31HZ-223Z	C.CAPACITOR	.022MF +80:-20%	
	C320	QCF31HZ-223Z	C.CAPACITOR	.022MF +80:-20%	
	C321	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C322	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C323	QCS31HJ-331Z	C RESISTOR	RX-888RBK ONLY	
	C324	QCS31HJ-331Z	C RESISTOR	RX-888RBK ONLY	
	C325	QCS31HJ-331Z	C RESISTOR	RX-888RBK ONLY	
	C326	QCS31HJ-331Z	C RESISTOR	RX-888RBK ONLY	
	C327	QCS31HJ-331Z	C RESISTOR	RX-888RBK ONLY	
	C328	QCS31HJ-331Z	C RESISTOR	RX-888RBK ONLY	
	C329	QCS31HJ-331Z	C RESISTOR	RX-888RBK ONLY	
	C330	QCS31HJ-331Z	C RESISTOR	RX-888RBK ONLY	
	C331	QCS31HJ-681Z	C CAPACITOR	RX-888RBK	
	C331	QCS31HJ-471Z	C CAPACITOR	RX-888VBK	
	C332	QCS31HJ-391	C CAPACITOR	390PF 5% 50V	
	C333	QCS31HJ-391	C CAPACITOR	390PF 5% 50V	
	C334	QCS31HJ-391	C CAPACITOR	390PF 5% 50V	
	C337	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C338	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C339	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C340	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C341	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C342	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C343	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C344	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C345	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C346	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C347	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C348	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C349	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C350	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C351	QCF31HZ-223Z	C.CAPACITOR	.022MF +80:-20%	
	C352	QCF31HZ-223Z	C.CAPACITOR	.022MF +80:-20%	
	C353	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C354	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C358	QCBB1HK-561Y	C CAPACITOR	560PF 10% 50V	
	C361	QCF31HZ-223Z	C.CAPACITOR	.022MF +80:-20%	
	C362	QCF31HZ-223Z	C.CAPACITOR	.022MF +80:-20%	
	C363	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C364	QET41HM-226	E CAPACITOR	22MF 20% 50V	
	C370	QCBB1HK-561Y	C CAPACITOR	560PF 10% 50V	
	C371	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C372	QET41EM-476	E CAPACITOR	47MF 20% 25V	
	C373	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C374	QET41HM-475	E CAPACITOR	4.7MF 20% 50V	
	C377	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C378	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C379	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C380	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C381	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C382	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C383	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C384	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C385	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C386	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C387	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	C388	QCS31HJ-331Z	C.CAPACITOR	RX-888RBK ONLY	
	D200	1SS133-T2	DIODE		
	D201	1SS133-T2	DIODE		
	J201	QNN0078-001	PIN JACK		
	J202	QNN0067-001	PIN JACK		
	J203	QNN0078-001	PIN JACK		
	J241	QND0002-001	S-CONNECTOR		
	J242	QND0028-001	DIN CONNECTOR		
	J243	QND0024-001	S JACK		
	J301	QNN0056-001	PIN JACK		
	J302	QNN0056-001	PIN JACK		
	J303	QNN0185-001	PIN JACK		
	J311	QNN0056-001	PIN JACK		
	J312	QNN0056-001	PIN JACK		
	J313	QNN0056-001	PIN JACK		
	J314	QNN0107-001	PIN JACK		
	L200	QQL231K-220Y	INDUCTOR		
	Q200	2SA933S/RS/-T	TRANSISTOR		
	Q201	2SA933S/RS/-T	TRANSISTOR		
	Q202	DTC143TSA-T	TRANSISTOR		
	Q203	DTC114YSA-T	D.TRANSISTOR		
	Q204	2SA933S/RS/-T	TRANSISTOR		
	Q205	2SA933S/RS/-T	TRANSISTOR		
	Q206	2SA933S/RS/-T	TRANSISTOR		
	Q240	2SA933S/RS/-T	TRANSISTOR		
	Q241	2SA933S/RS/-T	TRANSISTOR		
	Q301	2SC2878/AB/-T	TR.I/M		
	Q302	2SC2878/AB/-T	TR.I/M		
	R200	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R201	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R202	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R203	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R204	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R205	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R206	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R207	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R208	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R209	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R210	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R211	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R212	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R213	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R214	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R215	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R216	QRE141J-301Y	C.RESISTOR	300 5% 1/4W	
	R217	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R218	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R219	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R220	QRE141J-121Y	C RESISTOR	120 5% 1/4W	
	R221	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R222	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R223	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R224	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R225	QRJ146J-3R3X	UNF C RES I/M	3.3 5% 1/4W	
	R240	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R241	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R242	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R243	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R244	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R245	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R246	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R247	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R248	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R249	QRE141J-121Y	C RESISTOR	120 5% 1/4W	
	R256	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R257	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R258	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R259	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R264	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R265	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R266	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R267	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R268	QRE141J-750Y	C.RESISTOR	75 5% 1/4W	
	R269	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R271	QRJ146J-6R8X	UNF C RES I/M	6.8 5% 1/4W	
	R301	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R302	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R303	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R304	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R305	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R306	QRE141J-621Y	C RESISTOR	620 5% 1/4W	
	R307	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	
	R308	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	
	R309	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R310	QRE141J-474Y	C RESISTOR	470K 5% 1/4W	
	R311	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R312	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R313	QRJ146J-331X	C RESISTOR	330 5% 1/4W	
	R314	QRJ146J-331X	C RESISTOR	330 5% 1/4W	
	R315	QRZ9005-680X	F RESISTOR	68 1/4W	
	R316	QRZ9005-680X	F RESISTOR	68 1/4W	
	R325	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R326	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R327	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R328	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R329	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R330	QRE141J-471Y	C RESISTOR	470 5% 1/4W	

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R331	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R332	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R333	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R334	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R335	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R336	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R337	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R338	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R339	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R340	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R341	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R342	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R343	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R344	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R345	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R346	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R347	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R348	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R349	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R350	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R351	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R352	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R353	QRZ9005-680X	F RESISTOR	68 1/4W	
	R354	QRZ9005-680X	F RESISTOR	68 1/4W	
	R355	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R356	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R357	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R358	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R359	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R360	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R361	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R362	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R363	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R364	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R365	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R366	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R379	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R380	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R381	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R382	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R383	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R384	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R385	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R386	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R387	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R388	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	X200	QAX0261-001Z	CRYSTAL	RX-888RBK	
	X200	QAX0260-001Z	CRYSTAL	RX-888VBK	
	CN200	QGB2510K1-05	CONNECTOR		
	CN202	QGA2001F1-10	10P PLUG ASSY		
	CN204	QGB1214K1-14S	CONNECTOR		
	CN205	QGB1214J1-14S	CONNECTOR		
	CN206	QGA2501F1-02	CONNECTOR		
	CN240	QGB2510K1-04	CONNECTOR		
	CN242	QGB1214K1-14S	CONNECTOR		

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN243	QGB1214J1-14S	CONNECTOR		
	CN244	QGA2501F1-04	CONNECTOR		
	CN254	QGB2510K1-05	CONNECTOR		
	CN311	QGB2510K1-17	CONNECTOR		
	CN312	QGB2510K1-09	CONNECTOR		
	CN313	QGB2510K1-12	CONNECTOR		
	CN416	QGA2501F1-03	CONNECTOR		
	C1250	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1251	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C1252	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	D1250	MTZJ6.2C-T2	ZENER DIODE	RX-888VBK ONLY	
	D1251	MTZJ6.2C-T2	ZENER DIODE	RX-888VBK ONLY	
	IC201	BA7625	IC		
	IC202	NJM2285D	IC		
	IC203	MB90088PF-131	IC		
	IC241	BA7626	IC		
	IC242	BA7625	IC		
	IC301	NJM4580D-D	IC		
	IC302	NJM4580L	IC		
	IC303	NJM4580L	IC		
	IC304	TC9164AN	IC		
	IC305	NJM4580L	IC		
	IC311	TC9163AN	IC		
	IC391	BA15218N	IC		
	J1250	QNS0077-001	3.5 JACK		
	J1251	QNS0083-001	3.5 JACK		
	J1252	QNS0001-001	3.5 JACK(JES)	RX-888VBK ONLY	
	J1253	QNS0001-001	3.5 JACK(JES)	RX-888VBK ONLY	
	J1254	QNS0001-001	3.5 JACK(JES)	RX-888VBK ONLY	
	R1250	QRE141J-101Y	C RESISTOR	100 5% 1/4W	
	R1251	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1252	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1253	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R1254	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R1255	QRE141J-221Y	C RESISTOR	RX-888VBK ONLY	
	R1256	QRE141J-221Y	C RESISTOR	RX-888VBK ONLY	
	R1257	QRE141J-221Y	C RESISTOR	RX-888VBK ONLY	
	SP203	VYH7653-005	IC HOLDER		
	SW200	QSW0673-001	LEVER SWITCH		

■ DSP P.C.B.

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	J564	EMN00TV-107A	PIN JACK		
	CN681	QGB1214K3-18W	CONNECTOR		
	CN687	QGB1214K3-12W	CONNECTOR		
	C2001	NEA71EM-475X	E.CAPACITOR	4.7MF 20% 25V	
	C2002	NEA71EM-475X	E.CAPACITOR	4.7MF 20% 25V	
	C2003	NCB31HK-122X	C.CAPACITOR	1200PF 10% 50V	
	C2004	NCB31HK-122X	C.CAPACITOR	1200PF 10% 50V	
	C2005	NCS31HJ-121X	C CAPACITOR	120PF 5% 50V	
	C2006	NCS31HJ-121X	C CAPACITOR	120PF 5% 50V	
	C2007	NCS31HJ-391X	C CAPACITOR	390PF 5% 50V	
	C2008	NCS31HJ-391X	C CAPACITOR	390PF 5% 50V	
	C2009	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2010	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2013	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2014	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2016	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2017	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2018	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2019	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2020	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2021	NCB31HK-561X	C CAPACITOR	560PF 10% 50V	
	C2022	NCB31HK-561X	C CAPACITOR	560PF 10% 50V	
	C2023	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2024	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2025	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2026	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2027	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2028	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2029	NCB10JM-106X	C CAPACITOR	10MF 20% 6.3V	
	C2051	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2052	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2053	NEA71EM-475X	E.CAPACITOR	4.7MF 20% 25V	
	C2054	NEA71EM-475X	E.CAPACITOR	4.7MF 20% 25V	
	C2055	NEA71EM-475X	E.CAPACITOR	4.7MF 20% 25V	
	C2056	NEA71EM-475X	E.CAPACITOR	4.7MF 20% 25V	
	C2061	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2062	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2081	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2082	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2083	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2084	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2085	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2086	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2089	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2090	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2101	NCS31HJ-101X	C.CAPACITOR	100PF 5% 50V	
	C2104	NCB31HK-102X	C CAPACITOR	1000PF 10% 50V	
	C2127	NEA71HM-105X	E.CAPACITOR.	1.0MF 20% 50V	
	C2128	NEA71HM-105X	E.CAPACITOR.	1.0MF 20% 50V	
	C2133	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2134	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2139	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2140	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2200	NCB31HK-222X	C CAPACITOR	2200PF 10% 50V	
	C2201	NCB31AK-474X	C.CAPACITOR	.47MF 10% 10V	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C2202	NCB31CK-473X	C CAPACITOR	.047MF 10% 16V	
	C2203	NCB31HK-472X	C.CAPACITOR	4700PF 10% 50V	
	C2204	NCS31HJ-180X	C CAPACITOR	18PF 5% 50V	
	C2205	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2206	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2207	NCB10JK-475X	C CAPACITOR	4.7MF 10% 6.3V	
	C2208	NCB10JK-475X	C CAPACITOR	4.7MF 10% 6.3V	
	C2209	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2210	NEA70JM-226X	E CAPACITOR	22MF 20% 6.3V	
	C2211	NCS31HJ-150X	C CAPACITOR	15PF 5% 50V	
	C2221	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C2222	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C2223	NCB31CK-473X	C CAPACITOR	.047MF 10% 16V	
	C2224	NCB31CK-473X	C CAPACITOR	.047MF 10% 16V	
	C2225	NCB31HK-391X	C CAPACITOR	390PF 10% 50V	
	C2226	NCB31HK-391X	C CAPACITOR	390PF 10% 50V	
	C2227	NEA71HM-105X	E.CAPACITOR.	1.0MF 20% 50V	
	C2228	NEA71HM-105X	E.CAPACITOR.	1.0MF 20% 50V	
	C2229	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2230	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2237	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2238	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2241	NCB31HK-123X	C CAPACITOR	.012MF 10% 50V	
	C2242	NCB31HK-123X	C CAPACITOR	.012MF 10% 50V	
	C2245	NCB31HK-122X	C.CAPACITOR	1200PF 10% 50V	
	C2246	NCB31HK-122X	C.CAPACITOR	1200PF 10% 50V	
	C2247	NCB31HK-392X	C CAPACITOR	3900PF 10% 50V	
	C2248	NCB31HK-392X	C CAPACITOR	3900PF 10% 50V	
	C2249	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2250	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2251	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2252	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2253	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2254	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2263	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2264	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2305	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2306	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2307	NCB10JK-475X	C CAPACITOR	4.7MF 10% 6.3V	
	C2308	NCB10JK-475X	C CAPACITOR	4.7MF 10% 6.3V	
	C2309	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2310	NEA70JM-226X	E CAPACITOR	22MF 20% 6.3V	
	C2321	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C2322	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C2323	NCB31CK-473X	C CAPACITOR	.047MF 10% 16V	
	C2324	NCB31CK-473X	C CAPACITOR	.047MF 10% 16V	
	C2325	NCB31HK-391X	C CAPACITOR	390PF 10% 50V	
	C2326	NCB31HK-391X	C CAPACITOR	390PF 10% 50V	
	C2327	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2328	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2329	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2330	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2333	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2334	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2339	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C2340	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2341	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2342	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2343	NCB31HK-272X	C CAPACITOR	2700PF 10% 50V	
	C2344	NCB31HK-272X	C CAPACITOR	2700PF 10% 50V	
	C2345	NCB31HK-562X	C CAPACITOR	5600PF 10% 50V	
	C2346	NCB31HK-562X	C CAPACITOR	5600PF 10% 50V	
	C2347	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2348	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2349	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2350	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2363	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2364	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2405	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2406	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2407	NCB10JK-475X	C CAPACITOR	4.7MF 10% 6.3V	
	C2408	NCB10JK-475X	C CAPACITOR	4.7MF 10% 6.3V	
	C2409	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2410	NEA70JM-226X	E CAPACITOR	22MF 20% 6.3V	
	C2421	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C2422	NCB31HK-682X	C CAPACITOR	6800PF 10% 50V	
	C2423	NCB31CK-473X	C CAPACITOR	.047MF 10% 16V	
	C2424	NCB31CK-473X	C CAPACITOR	.047MF 10% 16V	
	C2425	NCB31HK-391X	C CAPACITOR	390PF 10% 50V	
	C2426	NCB31HK-391X	C CAPACITOR	390PF 10% 50V	
	C2427	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2428	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2429	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2430	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2433	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2434	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2439	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2440	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2441	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2442	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2443	NCB31HK-272X	C CAPACITOR	2700PF 10% 50V	
	C2444	NCB31AK-474X	C.CAPACITOR	.47MF 10% 10V	
	C2445	NCB31HK-562X	C CAPACITOR	5600PF 10% 50V	
	C2447	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2448	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2449	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2450	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2451	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2453	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2457	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2458	NCS31HJ-330X	C CAPACITOR	33PF 5% 50V	
	C2459	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2460	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2463	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2464	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2501	NCB31HK-472X	C.CAPACITOR	4700PF 10% 50V	
	C2502	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2503	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2504	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2505	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C2506	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2507	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2509	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2510	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2511	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2512	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2513	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2514	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2515	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2516	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2517	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2518	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2519	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2520	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2521	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2522	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2523	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2525	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2526	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2529	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2530	NEA70GM-107X	E CAPACITOR	100MF 20%	
	C2531	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2532	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2533	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2534	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2535	NEA70GM-107X	E CAPACITOR	100MF 20%	
	C2536	NEA70GM-107X	E CAPACITOR	100MF 20%	
	C2537	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2538	NEA70JM-476X	E CAPACITOR	47MF 20% 6.3V	
	C2541	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2542	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2543	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2544	NCB20JK-335X	C CAPACITOR	3.3MF 10% 6.3V	
	C2545	NCB20JK-335X	C CAPACITOR	3.3MF 10% 6.3V	
	C2546	NCB20JK-335X	C CAPACITOR	3.3MF 10% 6.3V	
	C2551	NCS31HJ-270X	C CAPACITOR	27PF 5% 50V	
	C2552	NCS31HJ-270X	C CAPACITOR	27PF 5% 50V	
	C2555	NCB11EK-104X	C.CAPACITOR	.10MF 10% 25V	
	C2556	NCB11EK-104X	C.CAPACITOR	.10MF 10% 25V	
	C2557	NCB10JM-106X	C CAPACITOR	10MF 20% 6.3V	
	C2558	NCB10JM-106X	C CAPACITOR	10MF 20% 6.3V	
	C2561	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2562	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2564	NCS31HJ-101X	C.CAPACITOR	100PF 5% 50V	
	C2568	NEA71HM-105X	E.CAPACITOR	1.0MF 20% 50V	
	C2571	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2572	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2573	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2581	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2582	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2583	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2584	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2585	NEA70JM-107X	E CAPACITOR	100MF 20% 6.3V	
	C2586	NEA71CM-476X	E CAPACITOR	47MF 20% 16V	
	C2587	NEA71CM-476X	E CAPACITOR	47MF 20% 16V	

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⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C2588	NEA70JM-107X	E CAPACITOR.	100MF 20% 6.3V	
	C2589	NCB21AK-225X	C.CAPACITOR.	2.2MF 10% 10V	
	C2590	NCB21AK-225X	C.CAPACITOR.	2.2MF 10% 10V	
	C2591	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2592	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2593	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2594	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2595	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2596	NCB31HK-103X	C CAPACITOR	.010MF 10% 50V	
	C2597	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2598	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2599	NCB30JK-105X	C CAPACITOR	1.0MF 10% 6.3V	
	C2601	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2601	NCB31HK-103X	C.CAPACITOR	RX-888RBK ONLY	
	C2603	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	C2604	NCB31CK-104X	C CAPACITOR	.10MF 10% 16V	
	D2201	HVU17-X	V.C DIODE I.M		
	FS561	E3400-431	SPACER	RX-888RBK ONLY	
	IC501	XCD56362PV100	IC		
	IC502	TC7S04FU-X	IC		
	IC503	TC7S04FU-X	IC		
	IC504	TC7WH241FU-X	IC		
	IC531	MN101C10ABF1	IC		
	IC532	MX23L1010TI15A1	IC		
	IC533	TC7SET32FU-X	IC		
	IC541	IS61LV256-12T	IC		
	IC542	IS61LV256-12T	IC		
	IC543	IS61LV256-12T	IC		
	IC551	AK4110VF-X	IC		
	IC571	JCE8001-X	IC		
	IC591	PQ3DZ53-X	IC		
	IC592	PQ3DZ53-X	IC		
	IC593	PQ3DZ53-X	IC		
	IC601	NJM4580E-W	IC C.M.		
	IC611	NJM4580E-W	IC C.M.		
	IC613	NJM4580E-W	IC C.M.		
	IC620	AK4520A-VF-X	IC A/D.D/A CONV		
	IC621	MN35503-X	IC C M		
	IC622	NJM4580E-W	IC C.M.		
	IC623	NJM4580E-W	IC C.M.		
	IC624	NJM4580E-W	IC C.M.		
	IC631	MN35503-X	IC C M		
	IC632	NJM4580E-W	IC C.M.		
	IC633	NJM4580E-W	IC C.M.		
	IC634	NJM4580E-W	IC C.M.		
	IC641	MN35503-X	IC C M		
	IC642	NJM4580E-W	IC C.M.		
	IC643	NJM4580E-W	IC C.M.		
	IC644	NJM4580E-W	IC C.M.		
	IC645	NJM4580E-W	IC C.M.		
	IC651	M62446FP-X	IC		
	IC652	TC74HCT04AF-X	IC		
	KA501	NQR0320-001X	EMI FILTER		
	KA531	NQR0320-001X	EMI FILTER		
	KA551	NQR0320-001X	EMI FILTER		

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⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	K2021	NQR0269-007X	FERRITE BEADS		
	K2022	NQR0269-007X	FERRITE BEADS		
	K2101	NQR0229-001X	F.BEADS C.M		
	K2501	NQR0269-007X	FERRITE BEADS		
	K2502	NQR0269-007X	FERRITE BEADS		
	K2503	NQR0269-007X	FERRITE BEADS		
	K2531	NQR0269-007X	FERRITE BEADS		
	K2551	NQR0269-007X	FERRITE BEADS		
	K2552	NQR0269-007X	FERRITE BEADS		
	LC501	NQR0322-001X	EMI FILTER C.M		
	LC531	NQR0322-001X	EMI FILTER C.M		
	LC532	NQR0322-001X	EMI FILTER C.M		
	LC541	NQR0322-001X	EMI FILTER C.M		
	LC542	NQR0322-001X	EMI FILTER C.M		
	LC543	NQR0322-001X	EMI FILTER C.M		
	LC551	NQR0322-001X	EMI FILTER C.M		
	LC571	NQR0322-001X	EMI FILTER C.M		
	LC620	NQR0322-001X	EMI FILTER C.M		
	LC621	NQR0322-001X	EMI FILTER C.M		
	LC631	NQR0322-001X	EMI FILTER C.M		
	LC641	NQR0322-001X	EMI FILTER C.M		
	L2201	NQL024J-5R6X	INDUCTOR C.M		
	L2561	EQL5002-470T	INDUCTOR C.M		
	L2562	EQL5002-470T	INDUCTOR C.M		
	Q2261	2SD1328/ST/-X	TRANSISTOR		
	Q2262	2SD1328/ST/-X	TRANSISTOR		
	Q2361	2SD1328/ST/-X	TRANSISTOR		
	Q2362	2SD1328/ST/-X	TRANSISTOR		
	Q2451	2SD1328/ST/-X	TRANSISTOR		
	Q2452	DTA114YE-X	TRANSISTOR		
	Q2453	DTA114YE-X	TRANSISTOR		
	Q2461	2SD1328/ST/-X	TRANSISTOR		
	Q2462	2SD1328/ST/-X	TRANSISTOR		
	Q2531	DTC114YE-X	TRANSISTOR		
	Q2532	DTC114YE-X	TRANSISTOR		
	R2001	NRSA63J-104X	RESISTOR	100K 5%	
	R2002	NRSA63J-104X	RESISTOR	100K 5%	
	R2003	NRSA63J-103X	RESISTOR	10K 5%	
	R2004	NRSA63J-103X	RESISTOR	10K 5%	
	R2005	NRSA63J-103X	RESISTOR	10K 5%	
	R2006	NRSA63J-103X	RESISTOR	10K 5%	
	R2007	NRSA63J-103X	RESISTOR	10K 5%	
	R2008	NRSA63J-103X	RESISTOR	10K 5%	
	R2009	NRSA63J-103X	RESISTOR	10K 5%	
	R2010	NRSA63J-103X	RESISTOR	10K 5%	
	R2011	NRSA63J-393X	MG RESISTOR	39K 5%	
	R2012	NRSA63J-393X	MG RESISTOR	39K 5%	
	R2013	NRSA63J-393X	MG RESISTOR	39K 5%	
	R2014	NRSA63J-393X	MG RESISTOR	39K 5%	
	R2017	NRSA63J-472X	RESISTOR	4.7K 5%	
	R2018	NRSA63J-472X	RESISTOR	4.7K 5%	
	R2021	NRSA63J-331X	RESISTOR	330 5%	
	R2022	NRSA63J-331X	RESISTOR	330 5%	
	R2023	NRSA63J-331X	RESISTOR	330 5%	
	R2024	NRSA63J-331X	RESISTOR	330 5%	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R2026	NRSA63J-221X	MG RESISTOR	220 5%	
	R2061	NRSA63J-104X	RESISTOR	100K 5%	
	R2062	NRSA63J-104X	RESISTOR	100K 5%	
	R2101	NRSA63J-183X	MG RESISTOR	18K 5%	
	R2102	NRSA63J-183X	MG RESISTOR	18K 5%	
	R2103	NRSA63J-183X	MG RESISTOR	18K 5%	
	R2104	NRSA63J-183X	MG RESISTOR	18K 5%	
	R2106	NRSA63J-333X	RESISTOR	33K 5%	
	R2107	NRSA63J-333X	RESISTOR	33K 5%	
	R2108	NRSA63J-333X	RESISTOR	33K 5%	
	R2109	NRSA63J-333X	RESISTOR	33K 5%	
	R2127	NRSA63J-104X	RESISTOR	100K 5%	
	R2128	NRSA63J-104X	RESISTOR	100K 5%	
	R2131	NRSA63J-113X	RESISTOR	11K 5%	
	R2132	NRSA63J-113X	RESISTOR	11K 5%	
	R2133	NRSA63J-113X	RESISTOR	11K 5%	
	R2134	NRSA63J-113X	RESISTOR	11K 5%	
	R2201	NRSA63J-333X	RESISTOR	33K 5%	
	R2202	NRSA63J-332X	RESISTOR	3.3K 5%	
	R2203	NRSA63J-473X	RESISTOR	47K 5%	
	R2204	NRSA63J-271X	RESISTOR	270 5%	
	R2205	NRSA63J-221X	MG RESISTOR	220 5%	
	R2207	NRSA63J-101X	RESISTOR	100 5%	
	R2208	NRSA63J-560X	RESISTOR	56 5%	
	R2209	NRSA63J-560X	RESISTOR	56 5%	
	R2210	NRSA63J-101X	RESISTOR	100 5%	
	R2211	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2212	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2213	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2214	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2215	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2216	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2217	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2218	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2219	NRSA63J-562X	RESISTOR	5.6K 5%	
	R2220	NRSA63J-562X	RESISTOR	5.6K 5%	
	R2221	NRSA63J-821X	RESISTOR	820 5%	
	R2222	NRSA63J-821X	RESISTOR	820 5%	
	R2223	NRSA63J-202X	MG RESISTOR	2.0K 5%	
	R2224	NRSA63J-202X	MG RESISTOR	2.0K 5%	
	R2225	NRSA63J-103X	RESISTOR	10K 5%	
	R2226	NRSA63J-103X	RESISTOR	10K 5%	
	R2227	NRSA63J-104X	RESISTOR	100K 5%	
	R2228	NRSA63J-104X	RESISTOR	100K 5%	
	R2231	NRSA63J-333X	CAPACITOR	33K 5%	
	R2232	NRSA63J-333X	RESISTOR	33K 5%	
	R2233	NRSA63J-333X	RESISTOR	33K 5%	
	R2234	NRSA63J-333X	RESISTOR	33K 5%	
	R2235	NRSA63J-333X	RESISTOR	33K 5%	
	R2236	NRSA63J-333X	RESISTOR	33K 5%	
	R2237	NRSA63J-333X	RESISTOR	33K 5%	
	R2238	NRSA63J-333X	RESISTOR	33K 5%	
	R2241	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2242	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2243	NRSA63J-102X	RESISTOR	1.0K 5%	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R2244	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2245	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2246	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2247	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2248	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2249	NRSA63J-104X	RESISTOR	100K 5%	
	R2250	NRSA63J-104X	RESISTOR	100K 5%	
	R2261	NRSA63J-103X	RESISTOR	10K 5%	
	R2262	NRSA63J-103X	RESISTOR	10K 5%	
	R2263	NRSA63J-104X	RESISTOR	100K 5%	
	R2264	NRSA63J-104X	RESISTOR	100K 5%	
	R2265	NRSA63J-101X	RESISTOR	100 5%	
	R2266	NRSA63J-101X	RESISTOR	100 5%	
	R2307	NRSA63J-101X	RESISTOR	100 5%	
	R2308	NRSA63J-560X	RESISTOR	56 5%	
	R2309	NRSA63J-560X	RESISTOR	56 5%	
	R2310	NRSA63J-101X	RESISTOR	100 5%	
	R2311	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2312	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2313	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2314	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2315	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2316	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2317	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2318	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2319	NRSA63J-562X	RESISTOR	5.6K 5%	
	R2320	NRSA63J-562X	RESISTOR	5.6K 5%	
	R2321	NRSA63J-821X	RESISTOR	820 5%	
	R2322	NRSA63J-821X	RESISTOR	820 5%	
	R2323	NRSA63J-202X	MG RESISTOR	2.0K 5%	
	R2324	NRSA63J-202X	MG RESISTOR	2.0K 5%	
	R2325	NRSA63J-103X	RESISTOR	10K 5%	
	R2326	NRSA63J-103X	RESISTOR	10K 5%	
	R2327	NRSA63J-104X	RESISTOR	100K 5%	
	R2328	NRSA63J-104X	RESISTOR	100K 5%	
	R2331	NRSA63J-113X	RESISTOR	11K 5%	
	R2332	NRSA63J-113X	RESISTOR	11K 5%	
	R2333	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2334	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2341	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2342	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2343	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2344	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2345	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2346	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2347	NRSA63J-104X	RESISTOR	100K 5%	
	R2348	NRSA63J-104X	RESISTOR	100K 5%	
	R2361	NRSA63J-103X	RESISTOR	10K 5%	
	R2362	NRSA63J-103X	RESISTOR	10K 5%	
	R2363	NRSA63J-104X	RESISTOR	100K 5%	
	R2364	NRSA63J-104X	RESISTOR	100K 5%	
	R2365	NRSA63J-101X	RESISTOR	100 5%	
	R2366	NRSA63J-101X	RESISTOR	100 5%	
	R2407	NRSA63J-101X	RESISTOR	100 5%	
	R2408	NRSA63J-560X	RESISTOR	56 5%	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R2409	NRSA63J-560X	RESISTOR	56 5%	
	R2410	NRSA63J-101X	RESISTOR	100 5%	
	R2411	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2412	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2413	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2414	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2415	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2416	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2417	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2418	NRSA63F-183X	MG RESISTOR	18K 1%	
	R2419	NRSA63J-562X	RESISTOR	5.6K 5%	
	R2420	NRSA63J-562X	RESISTOR	5.6K 5%	
	R2421	NRSA63J-821X	RESISTOR	820 5%	
	R2422	NRSA63J-821X	RESISTOR	820 5%	
	R2423	NRSA63J-202X	MG RESISTOR	2.0K 5%	
	R2424	NRSA63J-202X	MG RESISTOR	2.0K 5%	
	R2425	NRSA63J-103X	RESISTOR	10K 5%	
	R2426	NRSA63J-103X	RESISTOR	10K 5%	
	R2427	NRSA63J-104X	RESISTOR	100K 5%	
	R2428	NRSA63J-104X	RESISTOR	100K 5%	
	R2431	NRSA63J-113X	RESISTOR	11K 5%	
	R2432	NRSA63J-103X	RESISTOR	10K 5%	
	R2433	NRSA63J-393X	MG RESISTOR	39K 5%	
	R2434	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2441	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2442	NRSA63J-202X	MG RESISTOR	2.0K 5%	
	R2443	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2444	NRSA63J-202X	MG RESISTOR	2.0K 5%	
	R2445	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2446	NRSA63J-101X	RESISTOR	100 5%	
	R2447	NRSA63J-104X	RESISTOR	100K 5%	
	R2448	NRSA63J-104X	RESISTOR	100K 5%	
	R2451	NRSA63J-104X	RESISTOR	100K 5%	
	R2452	NRSA63J-102X	RESISTOR	1.0K 5%	
	R2453	NRSA63J-104X	RESISTOR	100K 5%	
	R2454	NRSA63J-103X	RESISTOR	10K 5%	
	R2455	NRSA63J-105X	MG RESISTOR	1.0M 5%	
	R2456	NRSA63J-105X	MG RESISTOR	1.0M 5%	
	R2457	NRSA63J-104X	RESISTOR	100K 5%	
	R2458	NRSA63J-243X	MG RESISTOR	24K 5%	
	R2459	NRSA63J-113X	RESISTOR	11K 5%	
	R2461	NRSA63J-103X	RESISTOR	10K 5%	
	R2462	NRSA63J-103X	RESISTOR	10K 5%	
	R2463	NRSA63J-104X	RESISTOR	100K 5%	
	R2464	NRSA63J-104X	RESISTOR	100K 5%	
	R2465	NRSA63J-101X	RESISTOR	100 5%	
	R2466	NRSA63J-101X	RESISTOR	100 5%	
	R2501	NRSA63J-105X	MG RESISTOR	1.0M 5%	
	R2502	NRSA63J-473X	RESISTOR	47K 5%	
	R2503	NRSA63J-473X	RESISTOR	47K 5%	
	R2504	NRSA63J-473X	RESISTOR	47K 5%	
	R2505	NRSA63J-473X	RESISTOR	47K 5%	
	R2506	NRSA63J-473X	RESISTOR	47K 5%	
	R2507	NRSA63J-473X	RESISTOR	47K 5%	
	R2511	NRSA63J-221X	MG RESISTOR	220 5%	

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R2512	NRSA63J-221X	MG RESISTOR	220 5%	
	R2513	NRSA63J-221X	MG RESISTOR	220 5%	
	R2514	NRSA63J-221X	MG RESISTOR	220 5%	
	R2531	NRSA63J-103X	RESISTOR	10K 5%	
	R2533	NRSA63J-473X	RESISTOR	47K 5%	
	R2534	NRSA63J-473X	RESISTOR	47K 5%	
	R2535	NRSA63J-473X	RESISTOR	47K 5%	
	R2536	NRSA63J-473X	RESISTOR	47K 5%	
	R2537	NRSA63J-201X	RESISTOR	200 5%	
	R2538	NRSA63J-201X	RESISTOR	200 5%	
	R2539	NRSA63J-473X	RESISTOR	47K 5%	
	R2551	NRSA02F-912X	MG RESISTOR	6.2K 1% 1/10W	
	R2556	NRSA63J-221X	MG RESISTOR	220 5%	
	R2557	NRSA63J-221X	MG RESISTOR	220 5%	
	R2558	NRSA63J-221X	MG RESISTOR	220 5%	
	R2559	NRSA63J-221X	MG RESISTOR	220 5%	
	R2561	NRSA63J-112X	MG RESISTOR	1.1K 5%	
	R2562	NRSA63J-112X	MG RESISTOR	1.1K 5%	
	R2564	NRSA63J-750X	RESISTOR	75 5%	
	R2565	NRSA63J-512X	MG RESISTOR	5.1K 5%	
	R2566	NRSA63J-512X	MG RESISTOR	5.1K 5%	
	R2567	NRSA63J-512X	MG RESISTOR	5.1K 5%	
	R2568	NRSA63J-221X	MG RESISTOR	220 5%	
	R2571	NRSA63J-105X	MG RESISTOR	1.0M 5%	
	R2572	NRSA63J-221X	MG RESISTOR	220 5%	
	R2573	NRSA63J-221X	MG RESISTOR	220 5%	
	R2574	NRSA63J-221X	MG RESISTOR	220 5%	
	R2575	NRSA63J-221X	MG RESISTOR	220 5%	
	R2576	NRSA63J-221X	MG RESISTOR	220 5%	
	R2611	NRSA63J-473X	RESISTOR	47K 5%	
	R2612	NRSA63J-473X	RESISTOR	47K 5%	
	R2613	NRSA63J-473X	RESISTOR	47K 5%	
	R2614	NRSA63J-473X	RESISTOR	47K 5%	
	R2615	NRSA63J-473X	RESISTOR	47K 5%	
	R2616	NRSA63J-473X	RESISTOR	47K 5%	
	UN561	GP1F32R	OPTICAL JACK		
	UN562	GP1F32R	OPTICAL JACK		
	X2501	NAX0308-001X	C RESONATOR		
	X2531	NAX0248-001X	C OSCILLATOR		
	X2551	NAX0213-001X	CRYSTAL		

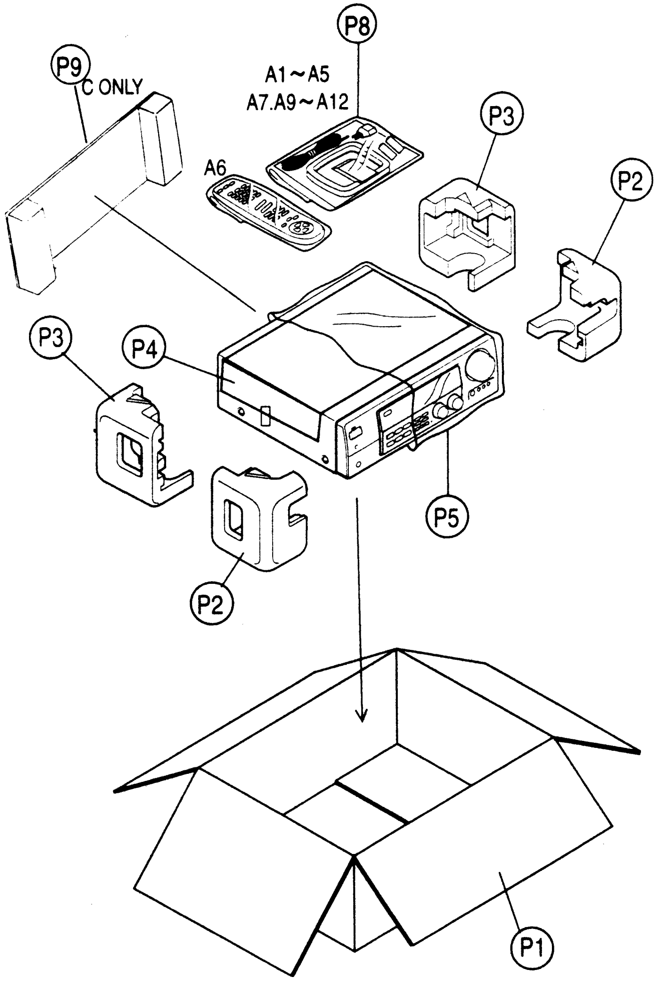
■ Tuner P.C.B.

BLOCK NO. 06

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	AT101	QNB0014-001	ANT TERMINAL		
	BK 1	E308963-224SM	SHIELD BKT		
	C 101	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 103	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 105	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 107	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 111	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 112	NDC21HJ-120X	C CAPACITOR		
	C 117	NCS21HJ-6R0X	C.CAPA. C.M	RX-888RBK ONLY	
	C 118	NCS21HJ-150X	C CAPACITOR	RX-888RBK ONLY	
	C 121	NDC21HJ-120X	C CAPACITOR		
	C 122	NDC21HJ-120X	C CAPACITOR		
	C 123	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 126	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 128	QEN41HM-474	N.P.E.CAPA. I.M	.47MF 20% 50V	
	C 129	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 130	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 133	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 134	NCB21HK-222X	C CAPACITOR	2200PF 10% 50V	
	C 135	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 136	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 137	NCS21HJ-680X	C.CAPA. C.M	RX-888RBK	
	C 137	NCB21HK-331X	C.CAPA. C.M	RX-888VBK	
	C 139	NCB21HK-333X	C CAPACITOR	RX-888VBK	
	C 139	NCB21HK-393X	C CAPACITOR	RX-888RBK	
	C 140	NCB21HK-393X	C CAPACITOR	RX-888RBK	
	C 140	NCB21HK-333X	C CAPACITOR	RX-888VBK	
	C 141	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 143	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 144	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 146	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 147	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 148	QEK41HM-224	E CAPACITOR	.22MF 20% 50V	
	C 149	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 150	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 156	QDGB1HK-102Y	C CAPACITOR		
	C 157	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 158	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 161	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 162	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 163	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 164	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 168	QEK41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 184	QEKC1CM-107Z	E CAPACITOR	100MF 20% 16V	
	C 185	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 186	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 191	NCS21HJ-820X	C CAPACITOR	RX-888RBK ONLY	
	C 192	NCS21HJ-470X	C CAPACITOR	RX-888RBK ONLY	
	C 193	NCB21HK-561X	C CAPACITOR	RX-888RBK ONLY	
	C 194	NCB21HK-104X	C CAPACITOR	RX-888RBK ONLY	
	C 195	NCB21HK-331X	C.CAPA. C.M	RX-888RBK ONLY	
	C 196	QEK41HM-225	E CAPACITOR	RX-888RBK ONLY	
	C 197	NCB21HK-473X	C CAPACITOR	RX-888RBK ONLY	
	C 199	QEK41CM-106	E CAPACITOR	RX-888RBK ONLY	
	CF101	QAX0419-001Z	C.FILTER	RX-888VBK	
	CF101	QAX0285-001Z	C.FILTER	RX-888RBK	
	CF102	QAX0285-001Z	C.FILTER	RX-888RBK	
	CF102	QAX0419-001Z	C.FILTER	RX-888VBK	
	CF103	QAX0519-001Z	C FILTER		
	CN111	QGB2501K2-12	CONECTOR		
	CN112	QGB2501K1-04	CONNECTOR	RX-888RBK ONLY	
	D 121	1SS133-T2	DIODE		
	D 123	1SS133-T2	DIODE		
	D 129	1SS133-T2	DIODE		
	D 131	1SS133-T2	DIODE	RX-888RBK ONLY	
	IC102	LA1838	IC		
	IC121	LC72136N	IC		
	IC191	SAA6588	IC(RDS)	RX-888RBK ONLY	
	L 111	QQL231K-150Y	INDUCTOR I.M	RX-888RBK ONLY	
	Q 102	2SC535/BC/-T	TR.I/M		
	Q 103	2SC461/BC/-T	TR.I/M		
	Q 111	KTC3199/GL/-T	TR I/M	RX-888RBK ONLY	
	Q 112	KTC3199/GL/-T	TR I/M	RX-888RBK ONLY	
	Q 113	DTA114YKA-X	TRANSISTOR	RX-888RBK ONLY	
	Q 121	DTA124ESA-T	D.TR.I.M		
	R 103	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 104	NRSA02J-272X	MG RESISTOR	2.7K 5% 1/10W	
	R 105	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 106	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 107	NRSA02J-561X	RES. C.M	560 5% 1/10W	
	R 108	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 109	NRSA02J-221X	MG RESISTOR	220 5% 1/10W	
	R 111	NRSA02J-472X	RES. C.M	RX-888RBK ONLY	
	R 112	QRE141J-472Y	C RESISTOR	RX-888RBK ONLY	
	R 114	NRSA02J-122X	MG RESISTOR	RX-888RBK ONLY	
	R 115	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 119	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 122	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 124	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 126	NRSA02J-562X	MG RESISTOR	5.6K 5% 1/10W	
	R 127	NRSA02J-822X	MG RESISTOR	8.2K 5% 1/10W	
	R 128	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 129	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 130	QRZ9005-680X	F RESISTOR	68 1/0W	
	R 132	NRSA02J-393X	MG RESISTOR	39K 5% 1/10W	
	R 133	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 134	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 140	NRSA02J-183X	RES. C.M	RX-888VBK	
	R 140	NRSA02J-563X	RES. C.M	RX-888RBK	
	R 141	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 142	NRSA02J-470X	MG RESISTOR	47 5% 1/10W	
	R 143	NRSA02J-562X	MG RESISTOR	5.6K 5% 1/10W	
	R 144	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 145	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 146	NRSA02J-472X	RES. C.M	4.7K 5% 1/10W	
	R 147	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 150	NRSA02J-331X	MG RESISTOR	330 5% 1/10W	
	R 157	NRSA02J-272X	MG RESISTOR	RX-888RBK	
	R 157	NRSA02J-682X	MG RESISTOR	RX-888VBK	
	R 158	NRSA02J-272X	MG RESISTOR	RX-888RBK	
	R 158	NRSA02J-682X	MG RESISTOR	RX-888VBK	
	R 161	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 162	NRSA02J-102X	RES. C.M	1.0K 5% 1/10W	
	R 182	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 183	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 184	NRSA02J-103X	RES. C.M	10K 5% 1/10W	
	R 191	NRSA02J-102X	RES. C.M	RX-888RBK ONLY	
	R 192	NRSA02J-474X	MG RESISTOR	RX-888RBK ONLY	
	R 193	NRSA02J-103X	RES. C.M	RX-888RBK ONLY	
	R 194	NRSA02J-103X	RES. C.M	RX-888RBK ONLY	
	RF101	QAU0124-001	FRONT END	RX-888VBK	
	RF101	QAU0119-001	FRONT END	RX-888RBK	
	T 111	QQR0871-001	COIL BLOCK	RX-888RBK	
	T 111	QQR0796-001	COIL BLOCK	RX-888VBK	
	T 142	QQR0973-001	IFT		
	X 121	QAX0402-001	CRYSTAL		
	X 191	QAX0263-001Z	CRYSTAL	RX-888RBK ONLY	

Packing Materials and Parts Numbers

Block No. M2MM
Block No. M3MM



■ Packing Parts List

BLOCK NO. M3MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	LV30044-074A	CARTON BOX	RX-888VBK J.C	1		
		LV30044-092A	CARTON BOX	RX-888RBK B	1		
		LV30044-091A	CARTON BOX	RX-888RBK E.EN	1		
	P 2	LV20039-201A	PACKING PAD		1		
	P 3	LV20040-201A	PACKING PAD		1		
	P 4	E73660-070	SHEET		1		
	P 5	LV40363-001A	ENVELOPE		1		
	P 8	QPA02503505P	POLY BAG		1		
	P 9	E308447-001SM	SHEET	RX-888RBK B	1		

■ Accessories Parts List

BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	LVT0177-002A	I.BOOK RBK EN	FIN DAN	1		
		LVT0177-002A	I.BOOK RBK EN	GER FRE DUT SWE	1		
		LVT0177-003A	I.BOOK RBK B	ENG	1		
		LVT0175-002A	I.BOOK VBK C	ENG FRE	1		
		LVT0177-001A	I.BOOK RBK E	ENG GER FRE DUT	1		
		LVT0177-001A	I.BOOK RBK E	SPA ITA	1		
		LVT0175-001B	I.BOOK VBK J	ENG	1		
	A 2	LVT0176-001A	I.BOOK VBK J	ENG	1		
	A 3	EWP503-001	ANT.WIRE		1		
	A 4	QAL0014-001	AM LOOP ANT		1		
	A 5	BT-51020-2	J=REGIST CARD	RX-888VBK J	1		
	A 6	RM-SRX888R	REMOCON	RX-888RBK	1		
		RM-SRX888J	REMOCON	RX-888VBK	1		
	A 7	------------	BATTERY		2		
	A 9	BT-20071B	SVC CENTER LIST	RX-888VBK C	1		
	A 10	BT-52002-1	C=W.CARD	RX-888VBK C	1		
	A 11	E43486-340A	BS=SAFETY INST	RX-888RBK B	1		
	A 12	BT-20044G	J=SAFETY INST	RX-888VBK J	1		